

ARIZONA DEPARTMENT OF TRANSPORTATION

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2009 ARIZONA WATERCRAFT SURVEY

Volume II –Technical Report

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1.0 INTRODUCTION

The Arizona Department of Transportation (ADOT), the Arizona Game & Fish Department (AGFD) and the Arizona State Parks Board (ASPB) are required, under Arizona Revised Statutes (Sec. 28-5926), to conduct a study every three years on watercraft fuel consumption and recreational watercraft usage. The primary purposes of this effort are as follows:

- To determine the percentage of total state taxes paid to Arizona for motor vehicle fuel that is used for propelling watercraft; and
- To determine the number of days of recreational watercraft use in each of the state's counties by boat use days and person use days.

The fuel consumption data is collected to determine the allocation of motor vehicle fuel tax to the State Lake Improvement Fund (SLIF). The information on recreational watercraft usage patterns on Arizona's lakes and rivers is necessary, in part, to determine the distribution of SLIF funds to applicants.

In addition to collecting the above mandated information, this study also collected selected attitudinal and behavioral data on the following subjects:

- Water-based and non-water-based recreational activities participated in;
- Boating and water-based recreational facility needs;
- SLIF fund utilization priorities;
- Adequacy and focus of watercraft law enforcement activities; and
- Attitudes about selected watercraft and outdoor recreation issues.

The information contained in this report is based on two key study components:

- A statistically valid and projectable telephone survey of 6,787 registered watercraft owners in Arizona, California, Nevada and Utah.
- An audit/survey of the fuel sales and consumption patterns of: (1) marinas, (2) public agencies, and (3) concessionaires, commercial boat operators and excursion operators.

In addition to the boat owner surveys and the marina, agency and concessionary audits, this study also included a launch ramp survey. The launch ramp survey was conducted to check the ratio of in-state to out-of-state boaters at ten selected Arizona lakes and rivers.

The methodology utilized on the boat owner segment of this study paralleled the methodology used by BRC in the 1994, 1997, 2000, 2003 and 2006 Watercraft studies. The one exception to this is that the 2003 study did not include Utah boaters since the State of Utah would not release their boat owner database for use in the study.

To develop the most accurate data possible, the data collection effort was divided into 24 separate data collection segments spread over the 12-month period from June 24, 2008, to June 4, 2009. Using this format, a total of approximately 558 interviews were conducted each month with one-half being conducted between roughly the 1st and 5th of the month and one-half between roughly the 16th and 20th of the month. During each of the 24 interviewing segments, boaters were asked to recall their boating patterns for only the two weeks prior to the interview.

This study was designed and executed under the direction of a Technical Advisory Committee (TAC) comprised of representatives from each sponsoring agency. The Behavior Research Center (BRC) wishes to thank each of the following TAC members for their indispensable assistance in the successful completion of this most important project:

- Frank Darmiento, ADOT
- John Semmens, ADOT
- Tanna Thornburg, ASPB
- Kevin Bergersen, AGFD

The information generated from this study is presented in two volumes. **VOLUME I – EXECUTIVE SUMMARY** presents a brief summary review of the key study findings and the methodology employed. **VOLUME II – TECHNICAL REPORT** presents an in-depth analysis of the study findings and a detailed explanation of the study methodology.

The Behavior Research Center has presented all of the data germane to the basic research objectives of the project. However, if the TAC requires additional data retrieval or interpretation, we stand ready to provide such input.

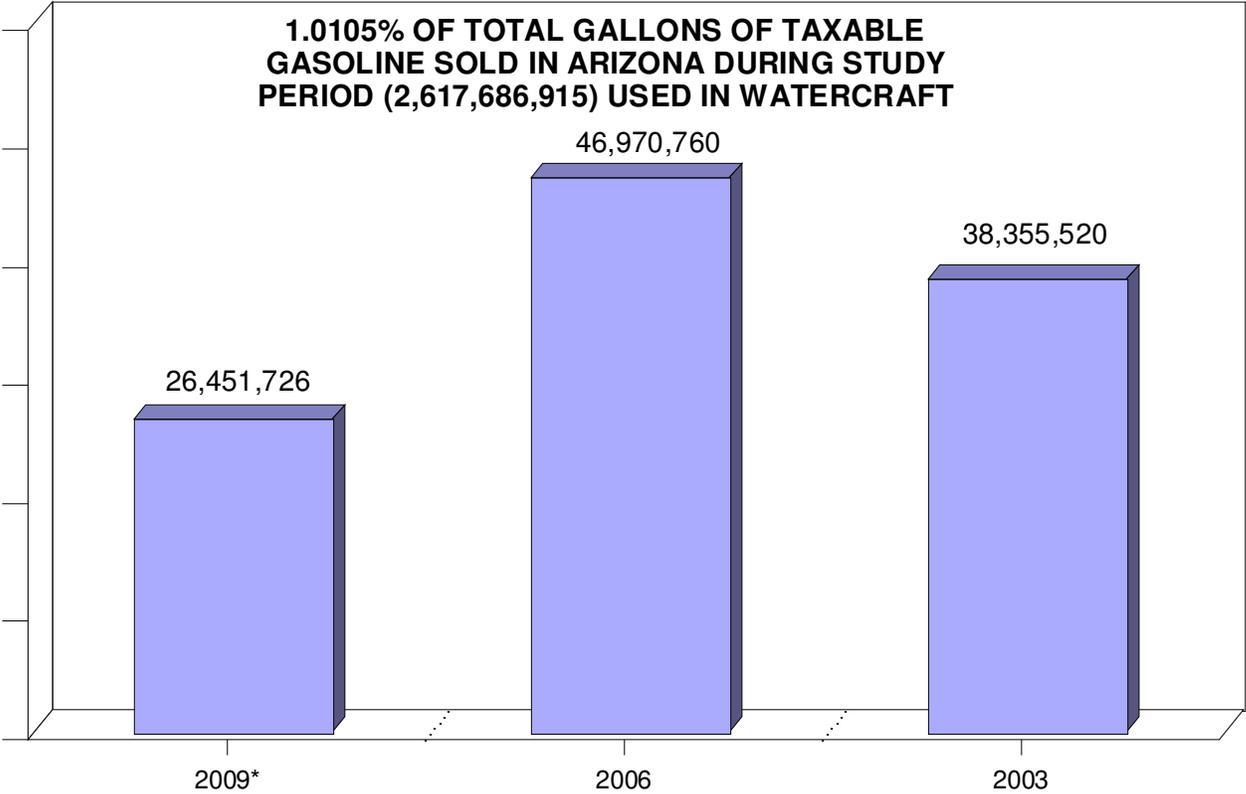
BEHAVIOR RESEARCH CENTER

2.0 SUMMARY OF THE FINDINGS

FUEL CONSUMPTION DATA

- Total gasoline used to propel watercraft in the state of Arizona between June 1, 2008, and May 31, 2009, is estimated to be 26,451,726 gallons using Protocol Method Number Two as agreed upon by the agencies in 1991. This total represents 1.0105 percent of the total 2,617,686,915 gallons of taxable gasoline sold in Arizona during the study period. This is the percentage which should be used for the SLIF allocation.

WATERCRAFT FUEL CONSUMPTION OF ARIZONA GASOLINE -- GALLONS



* Extrapolated using 1991 ADOT, AGFD and ASPB SLIF Allocation Protocol Method #2 (see page 36)

- The 2009 SLIF allocation of 1.0105 percent is down from the 2006 percentage of 1.7157. The primary reasons for the decrease are as follows:
 - The percent of boaters who used their watercraft on Arizona lakes and rivers in the prior two weeks decreased from 10.2 percent in 2006 to 9.0 percent in 2009.
 - The typical boater who used their watercraft on Arizona lakes and rivers in the prior two weeks used an average of 31.4 gallons over the two-week period compared to 43.0 gallons in 2006.
 - The typical boater who used their watercraft on Arizona lakes and rivers in the prior two weeks used it for 2.9 days, down from 3.4 days in 2006.

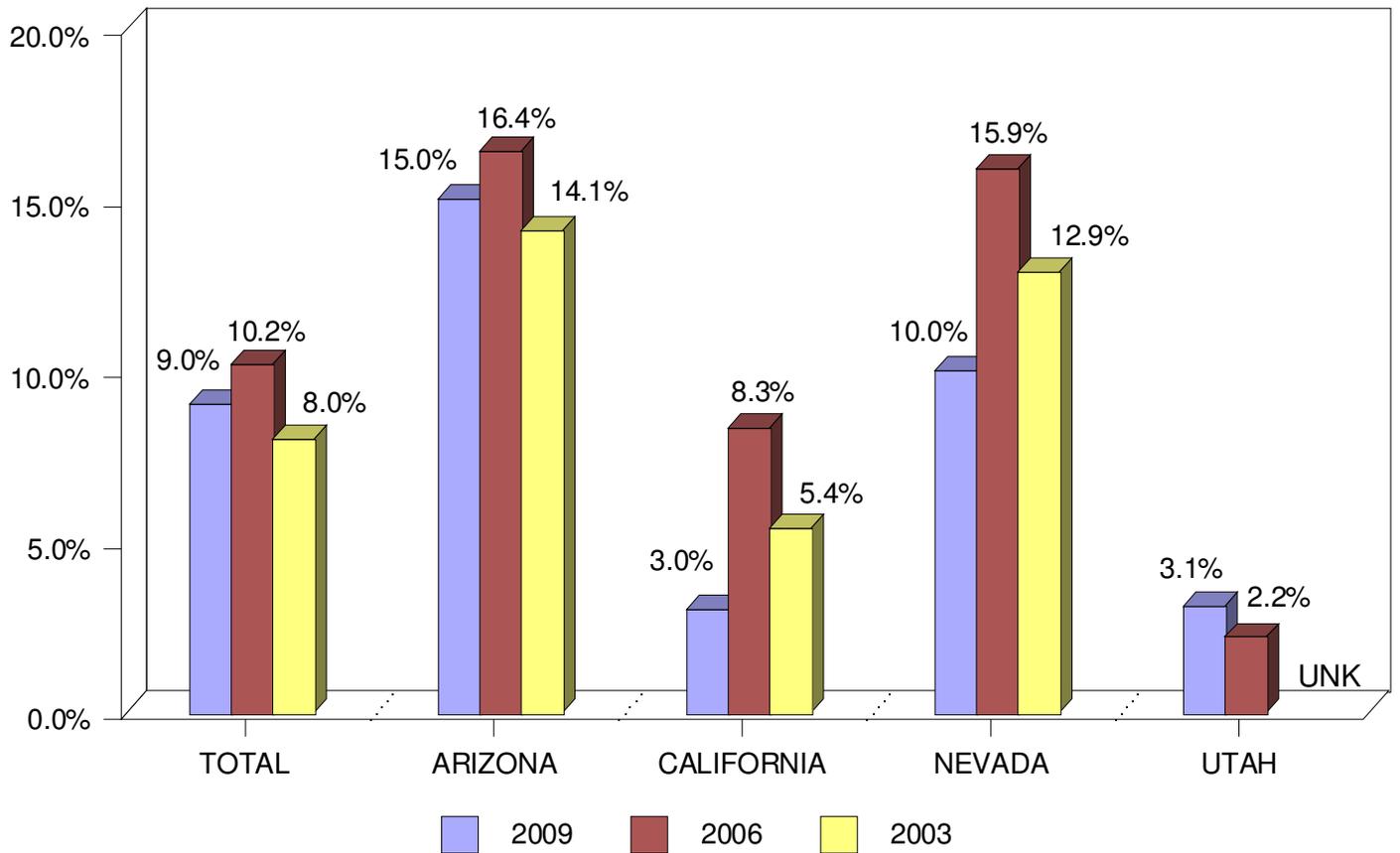
One explanation for the decrease in use and consumption from the prior study is the United States' current economy woes.

- The boating classification which continues to account for the largest amount of non-marina consumption is Class 2 (predominantly jet skis) with a reading of 36.7 percent. Among California boaters, this class accounts for 65.6 percent of consumption. In Arizona, Boat Class 5 (16' to 25' inboard and in/out) accounts for 33.3 percent of consumption.
- Gasoline is used to propel 98.6 percent of all boats, with the remainder utilizing diesel and aviation fuel.
- 94.5 percent of Arizona boaters purchase Arizona fuel compared to 65.0 percent of California boaters, 55.7 percent of Utah boaters and 17.0 percent of Nevada boaters.
- 91.5 percent of Arizona boaters purchase their Arizona fuel at a non-marina location compared to 84.0 percent of California boaters, 86.2 percent of Nevada boaters and 42.5 percent of Utah boaters.

USE OF WATERCRAFT IN ARIZONA

- 9.0 percent of registered watercraft owners in Arizona, California, Nevada and Utah use their boats in Arizona during any given two week period – down from 10.2 percent in 2006. Among Arizona watercraft owners, usage reaches 15.0 percent – down from 16.4 percent in 2006.
- As expected, the Arizona usage figure is above those for the other three states studied with 3.0 percent of California owners, 10.0 percent of Nevada owners and 3.1 percent of Utah owners indicating use in Arizona during any two-week period. The percentage of California owners using their boats is down sharply from 8.3 percent in 2006.

BOAT USE IN ARIZONA IN ANY GIVEN 2-WEEK PERIOD

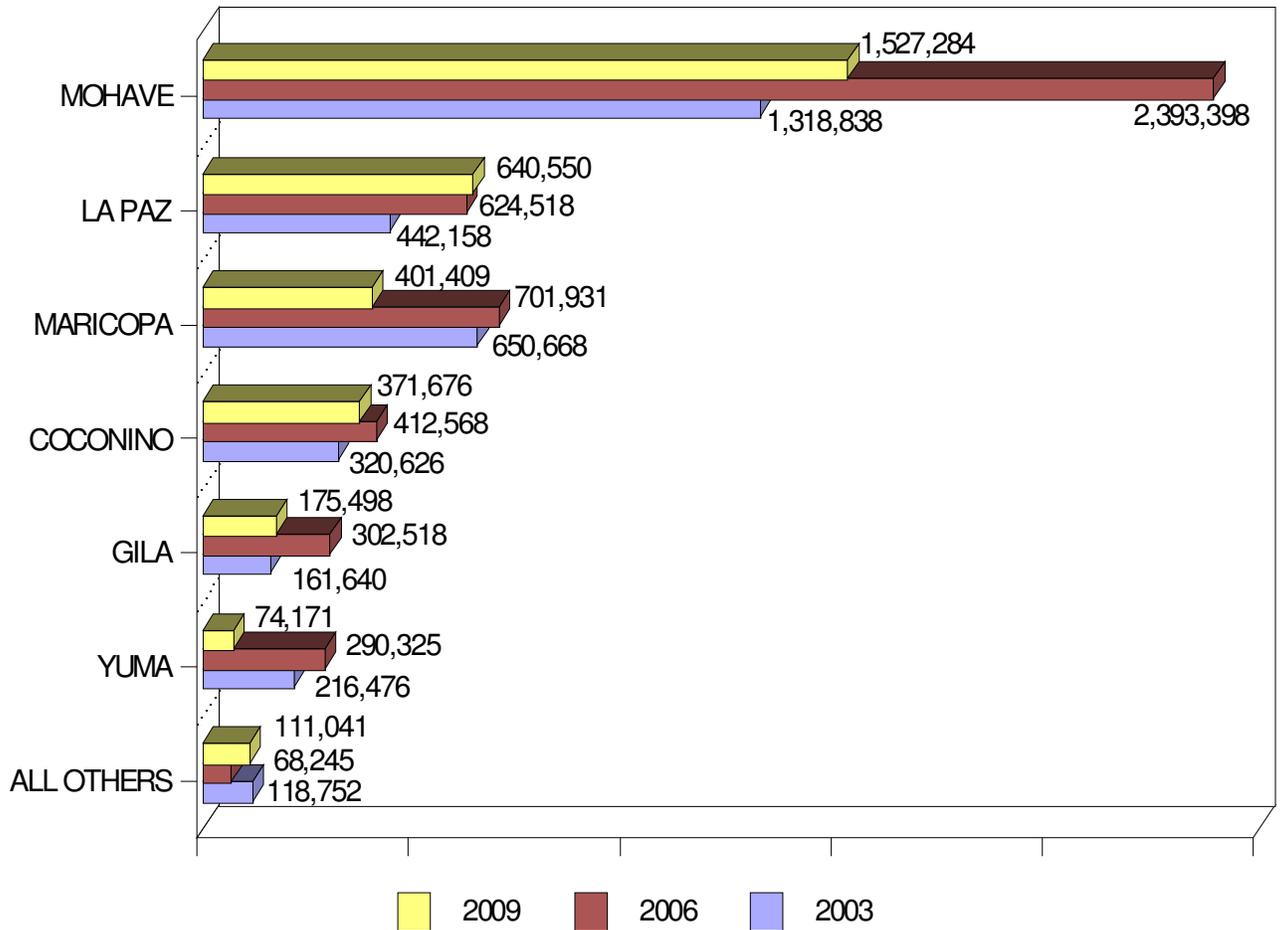


- 38.8 percent of all watercraft owners in the four-state survey universe utilized their boat in Arizona during the prior year – virtually unchanged from 38.2 percent in 2006. Among Arizona users, the figure reaches 62.8 percent (up from 57.5%) compared to 16.2 percent among California owners (down from 32.7%), 37.8 percent among Nevada owners (down from 42.6%) and 14.5 percent among Utah owners (up from 13.3%).

- Total boat use days in 2009 were 3,301,629, a 31 percent decrease over the 4,793,501 boat use days recorded in 2006. Similar to the prior studies, Mohave County is the dominant boating location in Arizona with 46.3 percent of total boat use days – down slightly from 49.9 percent in 2006.

BOAT USE DAYS BY ARIZONA COUNTY

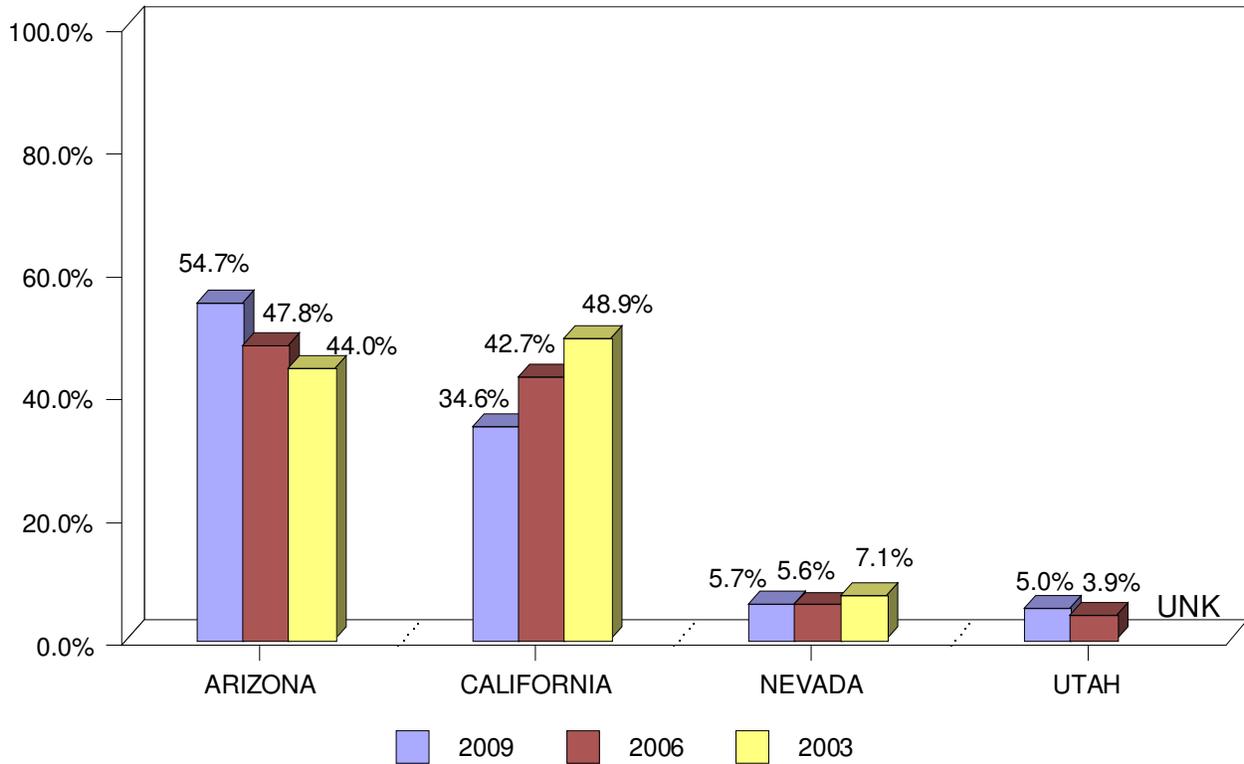
TOTAL BOAT USE DAYS: '09 = 3,301,629; '06 = 4,793,501; '03 = 3,229,153



- Person use days also decreased from 23,409,303 in 2006 to 15,941,792 in 2009 – a 32 percent decrease. As is the case with boat use days, Mohave County is the dominant boating location in Arizona, accounting for 47.6 percent of all person use days.

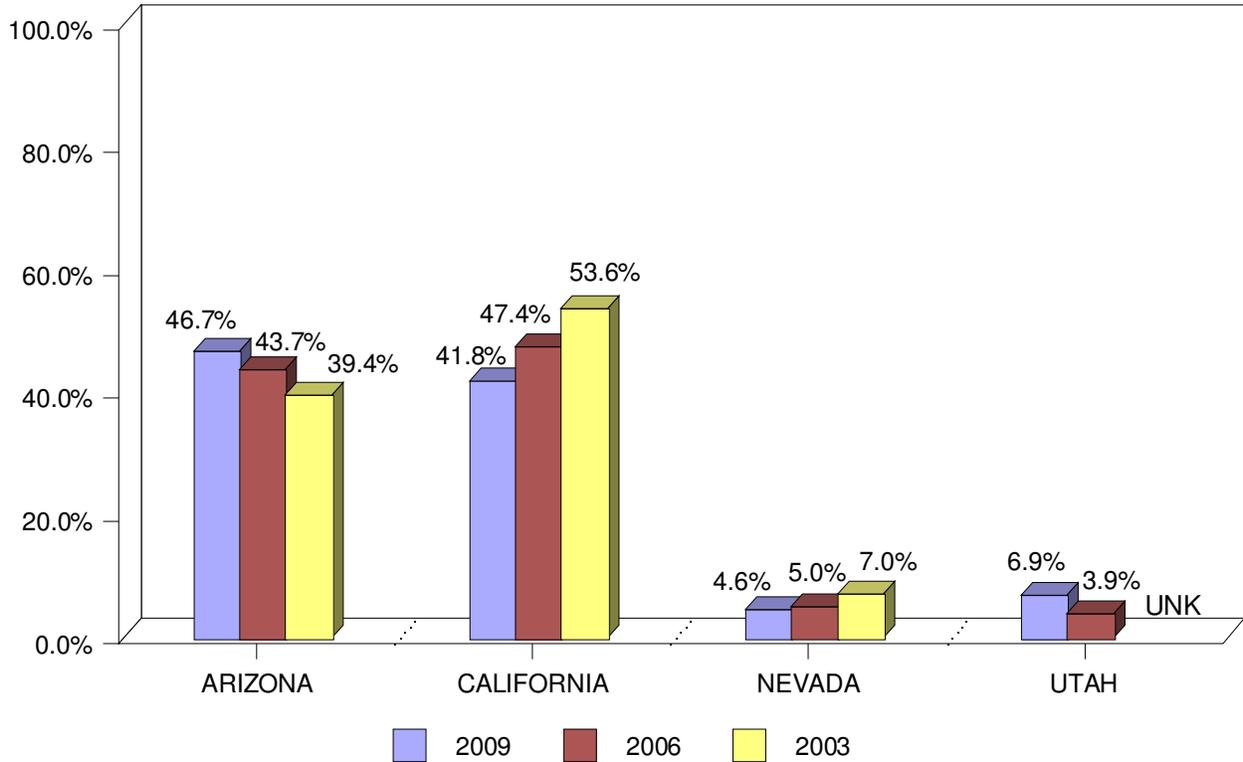
- Arizona boaters account for 54.7 percent of boat use days followed by California boaters with 34.6 percent, Nevada boaters with 5.7 percent and Utah boaters with 5.0 percent. These figures represent a major increase in boat use days among boaters from Arizona and a major decrease among boaters from California since the last study.

BOAT USE DAYS BY STATE GIVEN 2-WEEK PERIOD



- Unlike prior studies, California boaters do not account for the largest share of person use days. Thus we find that California boaters account for 41.8 percent of person use days (down from 47.4% in 2006) compared to 46.7 percent for Arizona boaters (up from 43.7% in 2006). The primary reason for California's high percentage in the prior studies was the fact that California boaters tended to have larger boating parties.
- Lake Havasu continues to be the state's most utilized lake in terms of both boat use days (765,084) and person use days (3,782,193).

PERSON USE DAYS BY STATE GIVEN 2-WEEK PERIOD



ADDITIONAL BOATING DATA

- The average daily expenditure for a boating trip in Arizona is \$302 – down from \$352 in 2006. The typical Arizona boater spends \$233 per day compared to \$408 for California boaters, \$133 for Nevada boaters and \$537 for Utah boaters.
- Public restrooms (23%) and launch ramps (20%) continue to be the most frequently mentioned needed facilities at boaters' favorite lakes.
- When boaters are asked to evaluate each of 22 specific boating and water-based recreational facilities at their favorite lake the facility registering the highest net positive reading is informational signs (+45%) followed by access roads (+44%), parking facilities for vehicles (+39%) and launch ramps (+39%). Three items continue to register net negative readings from roughly one-quarter of boaters or more: emergency telephones (-32%), drinking water outlets (-27%) and trash dumpsters accessible by boat (-19%).

- Seven percent of boaters are aware of the SLIF program, similar to the eight percent recorded in 2006 and nine percent in 2003. As might be expected, awareness is highest in Arizona with a reading of ten percent.
 - When boaters are asked if they feel the program’s funds should be use mostly for renovations or new building, a majority of boaters select renovations over new building – 57 percent vs. 26 percent. This reading for renovation is up slightly from the 2003 (53%) and 2006 (55%) readings.
 - When boaters are asked how important they feel each of six SLIF funding functions are, four of the functions are rated very or somewhat important by over eight out of ten boaters: 1) the construction of recreation support facilities such as restrooms, campgrounds and picnic tables (86%); 2) the construction of first-aid stations and other safety facilities (83%); 3) the construction of water-based boating facilities such as marinas, launch ramps and piers (83%); and 4) the purchasing of law enforcement and safety equipment such as patrol boats, radios and lights (80%). These four functions have remained at the top of the importance list over the past four studies.
 - When boaters are asked how important they feel each of seven uses should be if a new lake were being developed for boating, four receive ratings of very or somewhat important by more than 80 percent of the boaters: 1) general pleasure boating (92%); 2) fishing (89%); 3) water skiing (81%); and 4) power boating (80%). Sailing (63%) and jet skiing (64%) again received the lowest preference ratings.
- Stopping people who are boating while drunk (49%) and stopping people who are boating recklessly (48%) continue to be the two law enforcement activities which boaters would most like to see increased at their favorite lake or river. Also relating to law enforcement and safety issues at Arizona lakes, roughly three out of four boaters or more agree with the following attitudes:
 - That hands-on training should be required for boat rental customers (88%)
 - That boating law violators should be required to take a boating safety class, (85%)
 - That laws and regulations are being adequately enforced (81%)
 - That the minimum age for boat operators should be 16 years old (77%)
- Eight out of ten boaters (79%) support boating safety educational centers at Arizona lakes – virtually unchanged since 2003.
- A majority of boaters (65%) do not believe their favorite lake is too crowded, while 32 percent do.
- A majority of boaters (54%) believe the number of people using a lake should not be restricted during high use periods.

- 50 percent of boaters would support designating special areas for use only by jet skis – 47 percent would not.
- 47 percent of boaters believe their favorite lake needs additional primitive-type campgrounds, while 42 percent do not.
- Boaters continue to be split on whether the launch ramps at their favorite lake are too crowded (47% agree, 49% disagree).
- 45 percent of boaters believe their favorite lake needs additional developed campgrounds, while a like 45 percent do not.
- 42 percent of boaters believe their favorite lake needs additional RV hookups, while 47 percent do not.
- Boaters' top three single favorite boating activities continue to be fishing (31%), general pleasure boating (26%) and water skiing (18%).
- Eighty-five percent of boaters indicate that they are aware of the Quagga mussel with 46 percent indicating they know "a lot." In addition, 64 percent of boaters who are aware of the mussel, believe it is a "major threat" to Arizona's lakes and rivers.

3.0 RESEARCH METHODOLOGY

3.1 Introduction

To properly address the Departments' informational needs, it was necessary to collect information from a variety of population universes which either consume or sell Arizona fuel or utilize Arizona's lakes and rivers for recreational purposes. The specific universes studied during the course of this project were as follows:

Surveyed Universes:

- Arizona registered owners;
- Non-Arizona registered boat owners who utilize Arizona's lakes and rivers.

Audited/Surveyed Universes:

- Concessionaires, commercial boat operators and excursion operators who consume Arizona fuel;
- Public agencies which consume Arizona fuel; and
- Marinas servicing Arizona lakes and rivers which sell fuel.

The purpose of this section of the report is to address the procedures followed to collect the necessary information from these universes.

3.2 Boat Owner Survey – Sample Selection

In order to get an accurate picture of boaters' use of Arizona's lakes and rivers, this project component utilized a very large random sample of 6,787 Arizona, California, Nevada and Utah watercraft owners. A sample of this size is very unusual but was deemed necessary for this project due to its importance.

The sample of 6,787 watercraft owners utilized on this project component represents 1.10 percent of the 616,622 owners in the four-state region studied. As an example of how large this 1.10 percent sample of the total universe is, the typical statewide Arizona sample consists of approximately 800 respondents, or .00033 percent of Arizona's estimated 2,415,231 households, while the typical national United States sample consists of 1,500 respondents, or .00001 percent of the United States' estimated 115,306,103 households.

The following several pages of this report offer a detailed description on how the boat owner survey was conducted.

To determine the percentage of all fuel sold in Arizona attributable to propelling watercraft, it was first necessary to determine the total number of gallons sold to watercraft within the state. To arrive at this figure, the consumption patterns of two distinct user groups were studied: (1) Arizona registered boats for which gasoline is purchased in Arizona, and; (2) non-Arizona registered boats for which gasoline is purchased in Arizona.

A total of 616,622 Arizona and non-Arizona registered boat owners stratified by boat class were systematically random-sampled via telephone from current boat registration lists obtained from each state included in the study (Arizona Game & Fish Department, California Department of Motor Vehicles, Nevada Division of Wildlife and Utah Division of Motor Vehicles) to determine their fuel consumption and usage patterns during the study period. These figures were then projected to total boat registrations and the findings presented later in this report were calculated. The non-Arizona boaters' sample was drawn from the neighboring California counties of Imperial, Los Angeles, Orange, Riverside, San Diego and San Bernardino, the Nevada county of Clark and the state of Utah.

As may be seen on the following table, a total of 616,622 watercraft are registered in the sample universe. Of this total, 61.9 percent are located in California, while 21.8 percent are located in Arizona, 3.9 percent in Nevada and 12.4 percent in Utah.

In addition to the sheer volume of watercraft California contributes to the sample universe, several other interesting findings are also worth noting in Table 1:

Arizona Watercraft:

- High proportions of watercraft in class 4 (16' to 25' outboards).

California Watercraft:

- High proportion of class 2 watercraft (under 16' & in/out which is predominantly jet skis).

Nevada Watercraft:

- High proportion of watercraft in class 5 (16' to 25' in/out & in) and class 8 (over 25' in & in/out).

Utah Watercraft:

- High proportion of watercraft in class 5.

TABLE 1: WATERCRAFT POPULATION IN SAMPLE

BOAT CLASS	STATE OF REGISTRATION								<u>TOTAL</u>	
	ARIZONA		CALIFORNIA		NEVADA		UTAH		Number	%
	Number	%	Number	%	Number	%	Number	%		
1	25,085	18.6	55,396	14.5	2,827	11.8	14,105	18.4	97,413	15.8
2	26,614	19.8	129,218	33.9	6,777	28.3	13,322	17.4	175,931	28.5
3	5,611	4.2	15,108	4.0	23	.1	1,093	1.4	21,835	3.6
4	29,030	21.5	45,617	12.0	3,224	13.4	13,292	17.4	91,163	14.8
5	36,239	26.9	106,087	27.8	9,002	37.6	30,168	39.5	181,496	29.4
6	1,044	.8	10,195	2.7	183	.8	1,233	1.6	12,655	2.1
7	2,013	1.5	1,530	.4	183	.8	849	1.1	4,575	.7
8	8,500	6.3	11,633	3.0	1,665	6.9	2,296	3.0	24,094	3.9
9	<u>500</u>	<u>.4</u>	<u>6,717</u>	<u>1.7</u>	<u>80</u>	<u>.3</u>	<u>163</u>	<u>.2</u>	<u>7,460</u>	<u>1.2</u>
TOTAL	134,636	100.0	381,501	100.0	23,964	100.0	76,521	100.0	616,622	100.0
CUMULATIVE TOTAL		21.8%		61.9%		3.9%		12.4%		100.0%

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To develop the most accurate data possible, the data collection effort was divided into 24 separate data collection segments spread over the 12-month period from June 24, 2008, to June 4, 2009. Using this format, a total of approximately 558 interviews were conducted each month (250 Arizona, 224 California, 44 Nevada and 40 Utah) with one-half being conducted between roughly the 1<sup>st</sup> and 5<sup>th</sup> of the month and one-half between roughly the 16<sup>th</sup> and 20<sup>th</sup> of the month. During each of the 24 interviewing segments, boaters were asked to recall their boating patterns for only the two weeks prior to the interview.

At the beginning of this process, an analysis was made of the gasoline consumption variances that existed within each of the nine size/propulsion categories from the 2006 Arizona Watercraft Survey to determine the best method to stratify the current sample of boat owners to optimize sampling accuracy and efficiency. This analysis revealed that certain categories are very homogeneous and thus render relatively small standard deviations, while other classes are very heterogeneous and thus render relatively large standard deviations. This situation called for the use of a disproportional stratified sample in this segment of the study.

| CLASS | LENGTH     | PROPULSION                    |
|-------|------------|-------------------------------|
| 1     | Under 16'  | Outboard (prop)               |
| 2     | Under 16'  | Inboard & In/Out (prop & jet) |
| 3     | Under 16'  | Other (sail, oar, electric)   |
| 4     | 16' to 25' | Outboard (prop)               |
| 5     | 16' to 25' | Inboard & In/Out (prop & jet) |
| 6     | 16' to 25' | Other (sail, oar, electric)   |
| 7     | Over 25'   | Outboard (prop)               |
| 8     | Over 25'   | Inboard & In/Out (prop & jet) |
| 9     | Over 25'   | Other (sail, oar, electric)   |

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In disproportional stratified sampling, disproportionate sampling fractions are used to manipulate the number of cases selected from each strata (in this case, the nine size/propulsion classes), with the strata's standard deviations being used as the basis for allocation of cases. Those classes with proportionately larger standard deviations receive a proportionately larger number of cases, while those with proportionately smaller standard deviations receive a proportionately smaller number of cases. In essence, this sampling method allows us to select fewer cases from homogeneous classes and more cases from heterogeneous classes, thereby increasing overall sampling efficiency and accuracy. As a result, the final gasoline consumption estimates are sensitive to variations in consumption within the size/propulsion classes, thereby increasing the accuracy of the final estimate. In addition, this methodology meets the contract-required minimum of a margin of error of less than five percent at a 95 percent confidence level.

TABLE 2: TOTAL SAMPLING DISTRIBUTION

2006 Watercraft Survey

Boat Class	Length	Propulsion	Avg. (Mean) Daily Fuel Consumption	Standard Deviation	% of 2008 Registrations	Proportional Sample Distribution	+/- Margin Of Error At 95% Confidence	Disproportional Stratified Sample	+/- Margin Of Error At 95% Confidence
1	Under 16'	Outboard (prop)	7.0	8.1	15.8	1,024	3.1	1,000	3.2
2	Under 16'	Inboard & In/Out (prop & jet)	13.5	11.9	28.5	1,847	2.3	1,650	2.5
3	Under 16'	Other (sail, oar, electric)	4.2	6.1	3.5	227	6.6	250	6.3
4	16' to 25'	Outboard (prop)	8.4	6.3	14.8	959	3.2	1,075	3.0
5	16' to 25'	Inboard & In/Out (prop & jet)	17.6	24.3	29.4	1,905	2.3	1,780	2.4
6	16' to 25'	Other (sail, oar, electric)	4.4	9.0	2.1	136	8.6	150	8.2
7	Over 25'	Outboard (prop)	12.5	9.9	0.8	52	13.9	150	8.2
8	Over 25'	Inboard & In/Out (prop & jet)	24.2	24.9	3.9	252	6.3	275	6.0
9	Over 25'	Other (sail, oar, electric)	6.5	5.0	1.2	78	11.3	150	8.2
TOTAL			13.9	17.1	100.0%	6,480	1.2	6,480	1.2

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To properly address this study's informational needs, the total interview sampling base was distributed among Arizona, California, Nevada and Utah watercraft owners in the following fashion. This distribution does not exactly reflect the Boat Use Days distribution derived from the 2006 Watercraft Survey and was used because it allows for more sensitive county use data (since few Californians use any Arizona lakes except those adjacent to the Colorado River) without harming the ability to estimate the required fuel consumption data.

TABLE 3: SAMPLE DISTRIBUTION – BY STATE

| STATE      | BOAT USE DAYS 2006 | SAMPLE PERCENT | SAMPLE NUMBER |
|------------|--------------------|----------------|---------------|
| Arizona    | 47.8%              | 44.8%          | 3,000         |
| California | 42.7               | 40.1           | 2,688         |
| Nevada     | 5.6                | 7.9            | 528           |
| Utah       | <u>3.9</u>         | <u>7.2</u>     | <u>480</u>    |
| TOTAL      | 100.0%             | 100.0%         | 6,696         |

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On the following table is presented a review of the total number of interviews conducted by state and boat class. As Table 4 reveal, a total of 6,787 interviews were conducted during the course of this study – 3,066 Arizona, 2,708 California, 529 Nevada, 484 Utah. This volume is higher than the 6,696 initially planned for because additional interviews were conducted during each of the 24 interviewing segments.

TABLE 4: NUMBER OF INTERVIEWS COMPLETED

BOAT CLASS	TOTAL	STATE OF REGISTRATION			
		ARIZONA	CALIFORNIA	NEVADA	UTAH
1	1,022	537	365	48	72
2	1,719	605	893	147	74
3	291	146	121	0	24
4	1,126	666	314	73	73
5	1,806	795	702	165	144
6	168	24	96	24	24
7	169	97	24	24	24
8	293	172	72	24	25
9	193	24	121	24	24
TOTAL	6,787	3,066	2,708	529	484

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### **3.3 Boat Owner Survey – Questionnaire Development**

The survey questionnaire utilized on this project was developed by BRC in conjunction with the TAC (see Appendix B). The question areas were as follows:

#### **Watercraft Use:**

- Number of days watercraft used (prior 2 weeks, annually)
- Reasons for non-use
- Specific Arizona lakes and rivers visited (prior 2 weeks, prior 12 months)
- Number of boating trips made (prior 2 weeks)
- Presence of boat engine
- Horsepower of boat engine
- Types of fuel used
- Average daily fuel consumption
- Percent of fuel purchased in Arizona

#### **Destination Information:**

- Most frequently visited lakes or rivers
- Average dollar amount spent on typical boating trip

#### **Recreational Use Data:**

- Boating activities engaged in during the recreation day
- Number of people per boating party on a typical outing

#### **Boater Opinion:**

- Types of boating and water-based recreational facilities needed at lake or river most often visited
- Evaluation of water-based recreation facilities at lake or river most often visited
- Adequacy of boating law enforcement and the safety and education programs at lake or river most often visited
- Awareness of State Lake Improvement Fund (SLIF)
- SLIF program funding priorities
- General attitudes on selected boating issues

After approval of the preliminary draft questionnaire, it was pre-tested with a randomly selected cross-section of watercraft owners. The pre-test focused on the value and understandability of the questions, adequacy of response categories, questions for which probes were necessary and the like. Several minor changes were made following the pre-test and the final form received TAC approval.

This survey utilized a “split” sample methodology. Using this methodology, selected survey questions were designated core questions and asked of all survey respondents while other survey questions were asked of only one-third of the survey respondents. This methodology is commonly used when the volume of information desired is particularly extensive and the number of interviews to be conducted is of adequate size to justify splitting. Questions 1 through 17a were designated core questions for the purpose of this survey and asked of all study respondents. The remaining questions were asked of approximately one-third of the study respondents.

### **3.4 Boat Owner Survey – Data Collection**

All of the interviewing on this project was conducted at BRC's Computer-Assisted Telephone Interviewing (CATI) facility in Phoenix where each interviewer worked under the direct supervision of BRC supervisory personnel. All of the interviewers who worked on this project were professional interviewers of the Center. Each had prior experience with BRC and received a thorough briefing on the particulars of this study. During the briefing, the interviewers were trained on (a) the purpose of the study, (b) sampling procedures, (c) administration of the questionnaire, and; (d) other project-related factors. In addition, each interviewer completed a set of practice interviews to assure that all procedures were understood and followed.

As noted earlier, telephone interviewing on this study was conducted during 24 two-week time segments starting in June 2008 and ending in June 2009. During each segment, interviewing was restricted to Tuesdays, Wednesdays and Thursdays in order to avoid those days (Friday through Monday) on which the target universe (boat owners) was most likely to be away from home using their watercraft. Further, during the interviewing segment of this study, up to four separate attempts, on different days and during different times of day, were made to contact each selected boat owner. Only after four unsuccessful attempts was a selected boat owner substituted in the sample. Using this methodology, the full sample was completed and partially completed interviews were not accepted or counted toward fulfillment of the total sample quotas.

One hundred percent of the completed interviews were edited and any containing errors were pulled and the errors corrected. In addition, 15 percent of each interviewer's work was randomly selected for validation to ensure its authenticity and correctness. No problems were encountered during this phase of interviewing quality control.

As the data collection segment of this study was being undertaken, completed and validated interviews were turned over to BRC's in-house Coding Department. The Coding Department edited, validated and coded the interviews. Each interview that received final Coding Department approval was then transferred to the BRC Computer Department where a series of validity and logic checks were run on the data to ensure it was "clean."

The final step prior to running computer analysis of the survey data was to "weight" the data to reflect the actual distribution of watercraft found in the sample universe as revealed earlier in Table 1. This weighted data was only used in analyzing the attitudinal data collected in the survey, not in calculating the fuel consumption and boat use data.

### **3.5 Study Audits/Survey**

The second major data collection component on this project consisted of conducting audits of: (1) concessionaires, commercial boat operators and excursion operators; (2) government agencies, and; (3) marinas.

Each of these groups was audited/surveyed to collect the following information:

- **Concessionaires, Commercial Boat Operators and Excursion Operators:** To determine the amount of non-marina, Arizona gasoline they purchased.
- **Government Agencies:** To determine the amount of non-marina, Arizona gasoline subject to tax they purchased.
- **Marinas:** To determine the amount of gasoline purchased from Arizona distributors they sold.

In order to conduct these audits/surveys, it was first necessary to generate lists of each subject group. This was accomplished: (a) by using the lists compiled in previous Water-craft Surveys; (b) by reviewing telephone and Internet directories from around the state; (c) by reviewing AGFD's watercraft registration data base; (d) through discussions with selected chambers of commerce; (e) by referrals from other operators, agencies and marinas, and; (f) through discussions with AGFD Regional Supervisors.

All those on the identified lists were mailed a self-administered questionnaire along with a postage-paid, return mail envelope. Respondents were given approximately two weeks to respond to the mailing before follow-up telephone contact was undertaken and continued until a response was achieved. The audit/survey forms utilized during this study component are included in Appendix B of this report.

**TABLE 5: NUMBER OF AUDITS/SURVEYS COMPLETED**

**MARINAS**

|                                                 |    |
|-------------------------------------------------|----|
| Total forms mailed                              | 61 |
| No fuel sold/no Arizona fuel sold               | 27 |
| Sell Arizona gasoline                           | 23 |
| No longer in business                           | 8  |
| Did not respond after multiple attempts/refused | 3  |

**CONCESSIONAIRES**

|                                                  |     |
|--------------------------------------------------|-----|
| Total forms mailed                               | 174 |
| No fuel used/no qualified fuel used              | 70  |
| No longer in business                            | 43  |
| Arizona fuel used                                | 48  |
| Did not respond after multiple attempts/ refused | 13  |

**GOVERNMENT AGENCIES**

|                                                 |     |
|-------------------------------------------------|-----|
| Total forms mailed                              | 119 |
| No fuel used/not qualified fuel used            | 63  |
| Qualified Arizona fuel used                     | 45  |
| Did not respond after multiple attempts/refused | 10  |
| Office closed                                   | 1   |

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3.6 Launch Ramp Survey

The final major data collection component on this project consisted of conducting a launch ramp observation survey to determine the ratio of in-state to out-of-state boaters on selected Arizona lakes and rivers. The ten lakes and rivers selected for inclusion into this study phase were chosen by the TAC and included the inland and border waterways listed below. A total of six observations were conducted at each site during the peak launching hours from 6:00 a.m. and noon. The six observations were distributed so they covered the following time periods: (1) two weekday observations (one in the on-season, one in the off-season); (2) three weekend observations (two in the on-season, one in the off-season), and; (3) one holiday observation (Memorial Day, Fourth of July or Labor Day).

<u>LAKE/RIVER</u>	<u>LOCATIONS</u>
Bartlett	Public Ramp
Havasu	Lake Havasu Marina/ Sandy Point Marina
Martinez	Marina Ramp
Mead	Temple Bar
Mohave	Katherine's Landing/ Willow Beach
Parker Strip	Buckskin Mountain State Park
Pleasant	Marina/Public Ramps
Powell	Wahweap Marina
Roosevelt	Marina/Cholla Ramp
Saguaro	Public Ramps

Following completion of the boat owner surveys, the study audits/surveys and the launch ramp surveys, the data presented in the remainder of this report was compiled.

4.0 OVERALL USE OF ARIZONA LAKES AND RIVERS

Watercraft owners were asked to indicate whether or not they utilized their boats on Arizona lakes and rivers during the two weeks prior to being interviewed or at any time during the prior 12 months.

Looking first at use during the prior two weeks, we find that 9.0 percent of registered watercraft owners in Arizona, California, Nevada and Utah used their boats during any given two- week period – down from 10.2 percent in 2006. Among Arizona watercraft owners, usage reaches 15.0 percent, which is below the 16.4 percent recorded in 2006.

The Arizona usage figure is above those for the other three states studied with 3.0 percent of California owners, 10.0 percent of Nevada owners and 3.1 percent of Utah owners indicating use in Arizona during any two-week period. The percentage of California owners using their boats in Arizona is down sharply from 8.3 percent in 2006.

Looking next at the 12-month figures, we find that 38.8 percent of all watercraft owners in the four-state survey universe utilized their boats in Arizona during the prior year, which is little changed from 38.2 percent in 2006. Among Arizona users, the figure reaches 62.8 percent compared to 16.2 percent among California owners, 37.8 percent among Nevada owners and 14.5 percent among Utah owners.

**TABLE 6: WATERCRAFT USE ON ARIZONA
LAKES AND RIVERS – PAST 2 WEEKS/PAST 12 MONTHS**

“To start, was your boat used on Arizona lakes and rivers, including the Colorado River, during the (FIRST/LAST) two weeks of (MONTH)?”

“Did you use your boat on Arizona lakes and rivers including the Colorado River, any time during the past 12 months?”

	<u>USED PAST 2 WEEKS</u>					<u>USED PAST 12 MONTHS</u>				
	Total	Arizona	Cali- fornia	Nevada	Utah	Total	Arizona	Cali- fornia	Nevada	Utah
<u>TOTAL</u> - 2009	9.0%	15.0%	3.0%	10.0%	3.1%	38.8%	62.8%	16.2%	37.8%	14.5%
- 2006	10.2	16.4	8.3	15.9	2.2	38.2	57.5	32.7	42.6	13.3
- 2003	8.0	14.1	5.4	12.9	UNK	40.6	61.4	32.3	46.4	UNK
<u>SUMMARIZED CLASSES</u>										
Under 16' (1-3)	8.1%	13.5%	3.6%	9.7%	2.4%	36.3%	56.4%	21.0%	34.9%	10.0%
16' to 25' (4-6)	10.0	16.8	2.9	9.2	2.1	41.6	68.4	12.8	37.0	14.5
26" + (7-9)	7.9	12.3	0	13.9	8.2	37.4	62.5	4.1	48.6	24.7

TABLE NOTE: 2-week data based on 609 users (9.0% of 6,787), 12-month data based on 2,635 users (38.8% of 6,787)

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The main reasons Arizona watercraft owners give for not using their boats in the state is that they are either too busy (43%) or have lost interest (24%). The main reason among California, Nevada and Utah owners is that they only use their boats in their home state (California 44%, Nevada 23%, Utah 47%).

TABLE 7: MAIN REASONS FOR NOT USING BOAT  
WITHIN LAST 12 MONTHS

“Was there any particular reason your boat wasn’t used in Arizona?”

|                                                             | <u>STATE OF REGISTRATION</u> |                   |               |             |
|-------------------------------------------------------------|------------------------------|-------------------|---------------|-------------|
|                                                             | <u>Arizona</u>               | <u>California</u> | <u>Nevada</u> | <u>Utah</u> |
| Too busy, no time                                           | 43%                          | 18%               | 28%           | 16%         |
| Loss of interest, prefer other forms of recreation, medical | 24                           | 19                | 24            | 10          |
| Boat is inoperable, broken down, in storage                 | 17                           | 9                 | 13            | 3           |
| The expense is too much                                     | 10                           | 6                 | 6             | 7           |
| Out-of-state resident, use only in other state              | 7                            | 44                | 23            | 47          |
| Distance to Arizona lakes and rivers is too far             | 3                            | 12                | 11            | 27          |
| All other responses                                         | 7                            | 4                 | 10            | 3           |

Totals exceed 100% due to multiple responses

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On Table 8, data is presented on use days and trip frequency during the past two weeks and the past 12 months. The following patterns are revealed:

USAGE PAST 2 WEEKS

- **NUMBER OF USE DAYS** – Owners used their boats on Arizona lakes and rivers an average of 2.9 days in the past two weeks – down from 3.4 days in 2006.
- **NUMBER OF TRIPS** – The typical owner that used their boat in the past two weeks made only one trip (55%) during the two-week period – little changed from 2006.

USAGE PAST 12 MONTHS

- **NUMBER OF USE DAYS** – Owners used their boats on Arizona lakes and rivers an average of 14.6 days in the past 12 months – down from 15.1 days in 2006. Arizona owners’ use decreased from 16.8 days in 2006 to 15.7 days in 2009 and California owners’ from 13.6 days to 10.2 days.
- **NUMBER OF TRIPS** – Forty-four percent of owners who used their boats in Arizona during the past two weeks made ten or more trips in the past 12 months – down from 51 percent in 2006.

**TABLE 8: USE DAYS AND NUMBER OF TRIPS –
PAST 2 WEEKS/PAST 12 MONTHS**

(AMONG OWNERS USING BOATS IN ARIZONA)

	<u>TOTAL</u>			<u>STATE OF REGISTRATION – 2008</u>			
	<u>2009</u>	<u>2006</u>	<u>2003</u>	<u>Arizona</u>	<u>California</u>	<u>Nevada</u>	<u>Utah</u>
Number of Use Days	Past 2 Weeks						
1	27%	18%	20%	28%	18%	36%	7%
2	26	30	26	27	23	25	20
3	17	18	20	15	24	11	33
4	13	13	13	14	11	9	20
5 to 6	9	12	11	8	12	13	7
7 or more	<u>8</u>	<u>9</u>	<u>10</u>	<u>8</u>	<u>12</u>	<u>6</u>	<u>13</u>
	100%	100%	100%	100%	100%	100%	100%
MEAN - 2009	2.9	NA	NA	2.9	3.4	2.5	3.5
- 2006	NA	3.4	NA	3.3	3.7	2.8	4.3
- 2003	NA	NA	3.4	3.0	3.8	3.2	UNK
Number of Trips							
1	55%	57%	57%	51%	64%	53%	48%
2	25	24	22	26	21	20	39
3 or more	<u>20</u>	<u>19</u>	<u>21</u>	<u>23</u>	<u>15</u>	<u>27</u>	<u>13</u>
	100%	100%	100%	100%	100%	100%	100%

(Continued)

(CONT.) TABLE 8: USE DAYS AND NUMBER OF TRIPS –
PAST 2 WEEKS/PAST 12 MONTHS

(AMONG OWNERS USING BOATS IN ARIZONA)

	<u>TOTAL</u>			<u>STATE OF REGISTRATION – 2008</u>			
	<u>2009</u>	<u>2006</u>	<u>2003</u>	<u>Arizona</u>	<u>California</u>	<u>Nevada</u>	<u>Utah</u>
Number of Use Days	Past 12 Months						
1 to 5	36%	34%	30%	33%	45%	43%	30%
6 to 10	25	24	27	25	25	22	33
11 to 15	14	15	15	14	11	13	21
16 to 24	9	11	10	10	8	9	5
25 to 49	11	12	13	13	9	7	7
50 or over	<u>5</u>	<u>4</u>	<u>5</u>	<u>5</u>	<u>2</u>	<u>6</u>	<u>4</u>
	100%	100%	100%	100%	100%	100%	100%
MEAN - 2009	14.6	NA	NA	15.7	10.2	14.6	13.0
- 2006	NA	15.1	NA	16.8	13.6	18.6	11.8
- 2003	NA	NA	16.1	17.8	14.4	19.8	UNK
Number of Trips¹							
1 to 4	35%	27%	27%	24%	50%	30%	56%
5 to 9	21	22	20	18	21	26	38
10 to 14	15	17	16	17	13	14	6
15 to 24	13	18	14	17	8	17	0
25 to 49	11	9	14	15	8	4	0
50 or over	<u>5</u>	<u>7</u>	<u>9</u>	<u>9</u>	<u>0</u>	<u>9</u>	<u>0</u>
	100%	100%	100%	100%	100%	100%	100%

¹Only asked of those owners who also used their boat in past 2 weeks.

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## 5.0 FUEL CONSUMPTION

In this section of the report, we present an analysis of the percentage of total Arizona fuel consumed by watercraft within the state.

### 5.1 Boat Owner Survey

Looking first at general fuel consumption patterns, we present Table 9 which reveals the following findings:

- Gasoline is used to propel 98.6 percent of all boats, with the remainder utilizing diesel and aviation fuel.
- 94.5 percent of Arizona boaters purchase Arizona fuel compared to 65.0 percent of California boaters, 55.7 percent of Utah boaters and 17.0 percent of Nevada boaters.
- 91.5 percent of Arizona boaters purchase their Arizona fuel at a non-marina location compared to 84.0 percent of California boaters, 86.2 percent of Nevada boaters and 42.5 percent of Utah boaters. Marina purchasing reaches its highest level among Utah boaters (57.5%).
- The typical boater who utilized their boat in Arizona in the prior two weeks purchased 31.4 gallons of Arizona fuel, while the typical California boater purchased 30.4 gallons, the typical Utah boater 32.7 gallons and the typical Nevada boater 4.5 gallons. These figures represent sizeable declines in each state: Arizona – 11.6 gallons; California – 5.6 gallons; Nevada – 3.3 gallons; Utah – 1.8 gallons.

TABLE 9: FUEL CONSUMPTION PATTERNS AMONG  
BOATERS UTILIZING WATERCRAFT IN ARIZONA DURING  
PRECEDING 2-WEEK PERIOD

|                                                                                  | <u>STATE OF REGISTRATION – 2009</u> |                   |               |             |
|----------------------------------------------------------------------------------|-------------------------------------|-------------------|---------------|-------------|
|                                                                                  | <u>Arizona</u>                      | <u>California</u> | <u>Nevada</u> | <u>Utah</u> |
| <b>Type of Fuel Used</b>                                                         |                                     |                   |               |             |
| Gasoline                                                                         | 99.5%                               | 100.0%            | 95.7%         | 100.0%      |
| Other                                                                            | <u>.5</u>                           | <u>0.0</u>        | <u>4.3</u>    | <u>0.0</u>  |
|                                                                                  | 100.0%                              | 100.0%            | 100.0%        | 100.0%      |
| <b>Percent of Fuel Purchased in Arizona</b>                                      |                                     |                   |               |             |
| 2009                                                                             | 94.5%                               | 65.0%             | 17.0%         | 55.7%       |
| 2006                                                                             | 93.6                                | 72.2              | 19.0          | 38.9        |
| 2003                                                                             | 95.1                                | 72.8              | 21.6          | NA          |
| <b>Location Arizona Fuel Purchased</b>                                           |                                     |                   |               |             |
| Non-Marina                                                                       | 91.5%                               | 84.0%             | 86.2%         | 42.5%       |
| Marina                                                                           | <u>8.5</u>                          | <u>16.0</u>       | <u>13.8</u>   | <u>57.5</u> |
|                                                                                  | 100.0%                              | 100.0%            | 100.0%        | 100.0%      |
| <b>Arizona Purchased Gallons Used Preceding 2-Week Period – Mean</b>             |                                     |                   |               |             |
| 2009                                                                             | 31.4                                | 30.4              | 4.5           | 32.7        |
| 2006                                                                             | 43.0                                | 36.0              | 7.8           | 34.5        |
| 2003                                                                             | 36.4                                | 36.7              | 15.2          | NA          |
| <b>Non-Marina, Arizona Purchased Gallons Used Preceding 2-Week Period – Mean</b> |                                     |                   |               |             |
| 2009                                                                             | 28.7                                | 25.5              | 3.9           | 13.9        |
| 2006                                                                             | 38.7                                | 31.9              | 6.9           | 24.2        |
| 2003                                                                             | 32.2                                | 31.2              | 10.5          | NA          |
| <b>Marina, Arizona Purchased Gallons Used Preceding 2-Week Period – Mean</b>     |                                     |                   |               |             |
| 2009                                                                             | 2.7                                 | 4.9               | .6            | 18.8        |
| 2006                                                                             | 4.3                                 | 4.1               | .9            | 10.3        |
| 2003                                                                             | 4.2                                 | 5.5               | 4.7           | NA          |

Tables 10 through 19 present the gasoline consumption figures based on the results of the boat owner survey. These tables present fuel consumption for each state surveyed and for the total study universe.

Below is the formula used to develop the consumption figures presented in the tables. This formula is based on the following factors:

- A – Average number of days individual boat was used during two-week period.
- B – Average number of gallons of gasoline used per day by individual boat.
- C – Average number of gallons of gasoline used during two-week period by individual boat.
- D – Percent of gasoline purchased from Arizona suppliers by individual boat.
- E – Average number of gallons of Arizona gasoline purchased during two-week period by individual boat.
- F – Percent of gasoline purchased from non-marina sources by individual boat.
- G – Average number of gallons of non-marina, Arizona gasoline purchased during two-week period.
- H – Number of boats in class using Arizona lakes and rivers during two-week period.
- I – Total gallons of non-marina, Arizona gasoline purchased during two-week period by boat class.
- J – Total number of study periods – 24.
- K – Total gallons of non-marina, Arizona gasoline purchased by boat owners over 12-month period.

GASOLINE CONSUMPTION FORMULA

- 1st:           A X B = C
- 2nd:           C X D = E
- 3rd:           E X F = G
- 4th:           G X H = I
- 5th:           I X J = K

The following main findings from the boat owner survey are revealed in the fuel consumption summaries presented on Tables 10 and 11:

- **A total of 22,626,056 gallons of non-marina gasoline was purchased to propel boats during the study period. This figure represents a 56.4 percent decline from the 51,943,296 gallons recorded during the 2006 study.** The primary reasons for this significant decrease in gasoline purchased by boaters are as follows:
  - The percent of boaters who used their watercraft on Arizona lakes and rivers in the prior two weeks decreased from 10.2 percent in 2006 to 9.0 percent in 2009.
  - The typical boater who used their watercraft on Arizona lakes and rivers in the prior two weeks used an average of 31.4 gallons over the two-week period compared to 43.0 gallons in 2006.
  - The typical boater who used their watercraft on Arizona lakes and rivers in the prior two weeks used it for 2.9 days, down from 3.4 days in 2006.

One explanation for the decrease in use and consumption from the prior study is the United States' current economy woes.

- Total Arizona fuel consumption (non-marina plus marina) decreased sharply in 2009 over 2006 within the key two states participating in the surveys:
  - Arizona consumption decreased 51.4 percent – from 32,213,736 to 15,665,760.
  - California consumption decreased 62.4 percent – from 25,034,352 to 9,401,592.
- The boating classification which continues to account for the largest amount of non-marina consumption is Class 2 (predominantly jet skis), with a reading of 36.7 percent. Among California boaters, this class accounts for 65.6 percent of consumption. In Arizona, Boat Class 5 (16' to 25' inboard and in/out) accounts for 33.3 percent of consumption.
- **The total number of gallons of Arizona gasoline, both marina and non-marina, purchased during the study period is 26,865,920 gallons – down 54.7 percent from 59,313,312 gallons in 2006.**

TABLE 10: WATERCRAFT FUEL CONSUMPTION OF  
ARIZONA, NON-MARINA GASOLINE (BOAT OWNER SURVEY)

| BOAT CLASS | TOTAL      | ARIZONA    | CALIFORNIA | NEVADA  | UTAH    |
|------------|------------|------------|------------|---------|---------|
| 1          | 831,168    | 714,264    | 22,344     | 0       | 94,560  |
| 2          | 8,304,072  | 3,054,144  | 5,150,520  | 99,408  | 0       |
| 3          | 112,224    | 112,224    | 0          | 0       | 0       |
| 4          | 3,823,080  | 3,671,568  | 141,456    | 10,056  | 0       |
| 5          | 7,402,512  | 4,747,392  | 2,538,360  | 116,760 | 0       |
| 6          | 16,064     | 8,352      | 0          | 264     | 7,448   |
| 7          | 185,112    | 63,000     | 0          | 0       | 122,112 |
| 8          | 1,950,816  | 1,871,448  | 0          | 72,648  | 6,720   |
| 9          | 1,008      | 1,008      | 0          | 0       | 0       |
| TOTAL 2009 | 22,626,056 | 14,243,400 | 7,852,680  | 299,136 | 230,840 |
| TOTAL 2006 | 51,943,296 | 28,553,856 | 21,976,008 | 485,280 | 928,152 |
| TOTAL 2003 | 30,176,496 | 14,635,512 | 14,807,160 | 733,824 | NA      |

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TABLE 11: WATERCRAFT FUEL CONSUMPTION OF
ARIZONA GASOLINE – ANY SOURCE (BOAT OWNER SURVEY)

BOAT CLASS	TOTAL	NON-MARINA	MARINA
1	916,488	831,168	85,320
2	9,299,880	8,304,072	995,808
3	112,224	112,224	0
4	4,042,344	3,823,080	219,264
5	10,110,456	7,402,512	2,707,944
6	38,576	16,064	22,512
7	197,736	185,112	12,624
8	2,147,208	1,950,816	196,392
9	1,008	1,008	0
TOTAL 2009	26,865,920	22,626,056	4,239,864
TOTAL 2006	59,313,312	51,943,296	7,370,016
TOTAL 2003	35,859,216	30,176,496	5,682,720

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**TABLE 12: ARIZONA GASOLINE CONSUMPTION – NON-MARINA GALLONS – AZ BOATS**

|              | (1)                               | (2)                       | (3)                          | (4)                                        | (5)                                 | (6)                                    |
|--------------|-----------------------------------|---------------------------|------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| Boat Class   | AZ Gallons Purchased Past 2 Weeks | Total AZ Registered Boats | % AZ Boats Used Past 2 Weeks | Number of AZ Boats Used Past 2 Weeks (2x3) | Total AZ Gallons Past 2 Weeks (1x4) | Total AZ Gallons Past 12 Months (5x24) |
| 1            | 10.14                             | 25,085                    | 11.7                         | 2,935                                      | 29,761                              | 714,264                                |
| 2            | 30.07                             | 26,614                    | 15.9                         | 4,232                                      | 127,256                             | 3,054,144                              |
| 3            | 8.09                              | 5,611                     | 10.3                         | 578                                        | 4,676                               | 112,224                                |
| 4            | 28.96                             | 29,030                    | 20.3                         | 5,893                                      | 152,982                             | 3,671,568                              |
| 5            | 38.71                             | 36,239                    | 14.1                         | 5,110                                      | 197,808                             | 4,747,392                              |
| 6            | 4.00                              | 1,044                     | 8.3                          | 87                                         | 348                                 | 8,352                                  |
| 7            | 15.91                             | 2,013                     | 8.2                          | 165                                        | 2,625                               | 63,000                                 |
| 8            | 60.73                             | 8,500                     | 15.1                         | 1,284                                      | 77,977                              | 1,871,448                              |
| 9            | 1.00                              | 500                       | 8.3                          | 42                                         | 42                                  | 1,008                                  |
| <b>TOTAL</b> |                                   |                           |                              |                                            |                                     | 14,243,400                             |

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TABLE 13: ARIZONA GASOLINE CONSUMPTION – MARINA GALLONS – AZ BOATS

	(1)	(2)	(3)	(4)	(5)	(6)
Boat Class	AZ Gallons Purchased Past 2 Weeks	Total AZ Registered Boats	% AZ Boats Used Past 2 Weeks	Number of AZ Boats Used Past 2 Weeks (2x3)	Total AZ Gallons Past 2 Weeks (1x4)	Total AZ Gallons Past 12 Months (5x24)
1	1.00	25,085	11.7	2,935	2,935	70,440
2	3.60	26,614	15.9	4,232	15,235	365,640
3	0	5,611	10.3	578	0	0
4	1.28	29,030	20.3	5,893	7,543	181,032
5	4.88	36,239	14.1	5,110	24,937	598,488
6	0	1,044	8.3	87	0	0
7	3.19	2,013	8.2	165	526	12,624
8	6.30	8,500	15.1	1,284	8,089	194,136
9	0	500	8.3	42	0	0
TOTAL						1,422,360

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**TABLE 14: ARIZONA GASOLINE CONSUMPTION – NON-MARINA GALLONS – CA BOATS**

|              | (1)                               | (2)                       | (3)                          | (4)                                        | (5)                                 | (6)                                    |
|--------------|-----------------------------------|---------------------------|------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| Boat Class   | AZ Gallons Purchased Past 2 Weeks | Total CA Registered Boats | % CA Boats Used Past 2 Weeks | Number of CA Boats Used Past 2 Weeks (2x3) | Total AZ Gallons Past 2 Weeks (1x4) | Total AZ Gallons Past 12 Months (5x24) |
| 1            | 3.36                              | 55,396                    | .5                           | 277                                        | 931                                 | 22,344                                 |
| 2            | 31.94                             | 129,218                   | 5.2                          | 6,719                                      | 214,605                             | 5,150,520                              |
| 3            | 0                                 | 15,108                    | 1.7                          | 257                                        | 0                                   | 0                                      |
| 4            | 5.17                              | 45,617                    | 2.5                          | 1,140                                      | 5,894                               | 141,456                                |
| 5            | 30.21                             | 106,087                   | 3.3                          | 3,501                                      | 105,765                             | 2,538,360                              |
| 6            | 0                                 | 10,195                    | 1.0                          | 102                                        | 0                                   | 0                                      |
| 7            | 0                                 | 1,530                     | 0                            | 0                                          | 0                                   | 0                                      |
| 8            | 0                                 | 11,633                    | 0                            | 0                                          | 0                                   | 0                                      |
| 9            | 0                                 | 6,717                     | 0                            | 0                                          | 0                                   | 0                                      |
| <b>TOTAL</b> |                                   |                           |                              |                                            |                                     | 7,852,680                              |

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TABLE 15: ARIZONA GASOLINE CONSUMPTION – MARINA GALLONS – CA BOATS

	(1)	(2)	(3)	(4)	(5)	(6)
Boat Class	AZ Gallons Purchased Past 2 Weeks	Total CA Registered Boats	% CA Boats Used Past 2 Weeks	Number of CA Boats Used Past 2 Weeks (2x3)	Total AZ Gallons Past 2 Weeks (1x4)	Total AZ Gallons Past 12 Months (5x24)
1	2.24	55,396	.5	277	620	14,880
2	3.32	129,218	5.2	6,719	22,307	535,368
3	0	15,108	1.7	257	0	0
4	1.03	45,617	2.5	1,140	1,174	28,176
5	11.55	106,087	3.3	3,501	40,437	970,488
6	0	10,195	1.0	102	0	0
7	0	1,530	0	0	0	0
8	0	11,633	0	0	0	0
9	0	6,717	0	0	0	0
TOTAL						1,548,912

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**TABLE 16: ARIZONA GASOLINE CONSUMPTION – NON-MARINA GALLONS – NV BOATS**

|              | (1)                               | (2)                       | (3)                          | (4)                                        | (5)                                 | (6)                                    |
|--------------|-----------------------------------|---------------------------|------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| Boat Class   | AZ Gallons Purchased Past 2 Weeks | Total NV Registered Boats | % NV Boats Used Past 2 Weeks | Number of NV Boats Used Past 2 Weeks (2x3) | Total AZ Gallons Past 2 Weeks (1x4) | Total AZ Gallons Past 12 Months (5x24) |
| 1            | 0                                 | 2,827                     | 4.2                          | 119                                        | 0                                   | 0                                      |
| 2            | 5.27                              | 6,777                     | 11.6                         | 786                                        | 4,142                               | 99,408                                 |
| 3            | 0                                 | 23                        | 0                            | 0                                          | 0                                   | 0                                      |
| 4            | 2.37                              | 3,224                     | 5.5                          | 177                                        | 419                                 | 10,056                                 |
| 5            | 6.36                              | 9,002                     | 8.5                          | 765                                        | 4,865                               | 116,760                                |
| 6            | .23                               | 183                       | 25.0                         | 46                                         | 11                                  | 264                                    |
| 7            | 0                                 | 183                       | 12.5                         | 23                                         | 0                                   | 0                                      |
| 8            | 10.89                             | 1,665                     | 16.7                         | 278                                        | 3,027                               | 72,648                                 |
| 9            | 0                                 | 80                        | 12.5                         | 10                                         | 0                                   | 0                                      |
| <b>TOTAL</b> |                                   |                           |                              |                                            |                                     | 299,136                                |

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TABLE 17: ARIZONA GASOLINE CONSUMPTION – MARINA GALLONS – NV BOATS

	(1)	(2)	(3)	(4)	(5)	(6)
Boat Class	AZ Gallons Purchased Past 2 Weeks	Total NV Registered Boats	% NV Boats Used Past 2 Weeks	Number of NV Boats Used Past 2 Weeks (2x3)	Total AZ Gallons Past 2 Weeks (1x4)	Total AZ Gallons Past 12 Months (5x24)
1	0	2,827	4.2	119	0	0
2	.35	6,777	11.6	786	275	6,600
3	0	23	0	0	0	0
4	2.37	3,224	5.5	177	419	10,056
5	1.27	9,002	8.5	765	972	23,328
6	.01	183	25.0	46	1	24
7	0	183	12.5	23	0	0
8	0	1,665	16.7	278	0	0
9	0	80	12.5	10	0	0
TOTAL						40,008

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**TABLE 18: ARIZONA GASOLINE CONSUMPTION – NON-MARINA GALLONS – UT BOATS**

|              | (1)                               | (2)                       | (3)                          | (4)                                        | (5)                                 | (6)                                    |
|--------------|-----------------------------------|---------------------------|------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| Boat Class   | AZ Gallons Purchased Past 2 Weeks | Total UT Registered Boats | % UT Boats Used Past 2 Weeks | Number of UT Boats Used Past 2 Weeks (2x3) | Total AZ Gallons Past 2 Weeks (1x4) | Total AZ Gallons Past 12 Months (5x24) |
| 1            | 20.00                             | 14,105                    | 1.4                          | 197                                        | 3,940                               | 94,560                                 |
| 2            | 0                                 | 13,322                    | 4.1                          | 546                                        | 0                                   | 0                                      |
| 3            | 0                                 | 1,093                     | 0                            | 0                                          | 0                                   | 0                                      |
| 4            | 0                                 | 13,292                    | 0                            | 0                                          | 0                                   | 0                                      |
| 5            | 0                                 | 30,168                    | 2.1                          | 634                                        | 0                                   | 0                                      |
| 6            | 3.06                              | 1,233                     | 8.3                          | 102                                        | 312                                 | 7,448                                  |
| 7            | 48.00                             | 849                       | 12.5                         | 106                                        | 5,088                               | 122,112                                |
| 8            | 1.52                              | 2,296                     | 8.0                          | 184                                        | 280                                 | 6,720                                  |
| 9            | 0                                 | 163                       | 4.2                          | 7                                          | 0                                   | 0                                      |
| <b>TOTAL</b> |                                   |                           |                              |                                            |                                     | 230,840                                |

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TABLE 19: ARIZONA GASOLINE CONSUMPTION – MARINA GALLONS – UT BOATS

	(1)	(2)	(3)	(4)	(5)	(6)
Boat Class	AZ Gallons Purchased Past 2 Weeks	Total UT Registered Boats	% UT Boats Used Past 2 Weeks	Number of UT Boats Used Past 2 Weeks (2x3)	Total AZ Gallons Past 2 Weeks (1x4)	Total AZ Gallons Past 12 Months (5x24)
1	0	14,105	1.4	197	0	0
2	6.73	13,322	4.1	546	3,675	88,200
3	0	1,093	0	0	0	0
4	0	13,292	0	0	0	0
5	73.32	30,168	2.1	634	46,485	1,115,640
6	9.19	1,233	8.3	102	937	22,488
7	0	849	12.5	106	0	0
8	.51	2,296	8.0	184	94	2,256
9	0	163	4.2	7	0	0
TOTAL						1,228,584

~~~~~

## 5.2 Study Audits/Survey

- Concessionaires, Commercial Boat Operators and Excursion Operators

Total consumption of non-marina, Arizona gasoline among the operators surveyed is 293,240 gallons, down from 388,820 in 2006.

- Government Agencies

Total consumption of non-marina, Arizona gasoline subject to tax among the agencies surveyed is 57,999 gallons, up from 42,994 in 2006.

- Marinas

Total sales of Arizona gasoline among the marinas surveyed are 3,211,321, down from 4,508,813 in 2006.

## 5.3 Total Annual Gasoline Consumption Calculations

Presented in Table 20 is the summarized data on gasoline consumption from each of the various study components.

In 1991, ADOT, AGFD and ASPB signed an agreement (see Appendix) that established a protocol on how the SLIF allocation percentage was to be calculated in the later surveys. The specifics of this protocol are as follows:

Variables (in gallons)

A = Boaters' reports of marina fuel purchases

B = Marinas' reports of fuel sales

C = Boaters' reports of non-marina fuel purchases

D = Commercial and government reports of watercraft fuel purchases

E = Total statewide gasoline sales on which Arizona tax was paid

### Step 1: Compare Variables A and B.

- If A divided by B is 1.25 or less, use Method #1,
- If A divided by B is more than 1.25, use Method #2.

**Step 2: Calculate SLIF Percentage.**

Method #1:

$$(A + C + D) \div E = \text{SLIF Percentage}$$

Method #2:

$$(B + D + [(C \times B/A)] \div E \times 1.25 = \text{SLIF Percentage}$$

As required by the protocol, the first step in calculating the SLIF allocation percentage is to compare the fuel estimates from the boater survey and the marina audits/surveys. This step indicates that the variation is 1.32.

|                                                         | <u>MARINA FUEL SALES ESTIMATES</u> |                |                |
|---------------------------------------------------------|------------------------------------|----------------|----------------|
|                                                         | 2008 -<br>2009                     | 2005 -<br>2006 | 2002 -<br>2003 |
| A. Marina Purchasing Estimate<br>From Boat Owner Survey | 4,239,864                          | 7,370,016      | 5,682,720      |
| B. Marina Fuel Sales Estimate<br>From Marina Audit      | 3,211,321                          | 4,508,813      | 4,877,597      |
| Variation (A/B)                                         | 1.32                               | 1.63           | 1.17           |

~~~~~

According to the protocol, the 1.32 variation calls for the use of method 2 for calculating the SLIF allocation. **Applying this formula to the collected data, we estimate the 2009 SLIF allocation at 1.0105 percent.**

$$\frac{\text{SLIF Using Method 2 } ([B + D + (C \times B/A)] \div E) \times 1.25 = \text{SLIF}}{([3,211,321 + 351,239 + (23,236,960 \times 3,211,321/4,239,864)] \div 2,617,686,915) \times 1.25}$$

1.0105

TABLE 20: ANNUAL WATERCRAFT FUEL CONSUMPTION SUMMARY TOTALS

	GALLONS		
	2009	2006	2003
Registered Boat Owner's Consumption Of Non-Marina, Arizona Gasoline			
Arizona registered	14,243,400	28,553,856	14,635,512
California registered	7,852,680	21,976,008	14,807,160 ¹
Utah registered	230,840	928,152	1,244,092
Nevada registered	299,136	485,280	733,824
Total from survey	22,626,056	51,943,296	31,420,588
Plus adjustment for non-surveyed boaters (Other out-of-state) consumption – 2.7%	610,094	1,402,469	848,356
Total (C)	23,236,960	53,345,765	32,268,944
Commercial Operators (Concessionaires, Commercial Boat Operators, Excursion Operators) Consumption of Non-Marina, Arizona Gasoline (D)	293,240	388,820	365,924
Public Agencies Consumption of Taxable Non- Marina, Arizona Gasoline (D)	57,999	42,994	37,930
Marina Fuel Sales – Total From Boat Owner Survey (A)	4,239,864	7,370,016	5,682,720
Marina Fuel Sales – From Marina Audits/Surveys (B)	3,211,321	4,508,813	4,877,597
Total Gallons Of Taxable Gasoline Sold In Arizona Between June 1, 2008, and May 31, 2009 (E)	2,617,686,915	2,737,702,381	2,642,538,772

¹To arrive at the 2003 Utah consumption figure, the 2000 figure was reduced by 25.2% the same reduction recorded in Arizona, California and Nevada

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## 6.0 RECREATIONAL WATERCRAFT USE BY COUNTY

In this section of the report, we present data on watercraft usage in each Arizona county by Arizona, California, Nevada and Utah boat owners. Watercraft usage in this section is calculated and presented using two different data sets. The first data set is based on lake utilization during the two weeks prior to being interviewed and is identical to the format followed since the 1994 Watercraft Survey. The second data set is based on lake utilization during the 12 months prior to being interviewed and excludes any boater who utilized their boat in the two weeks prior to being interviewed. This data set was first included in the 2000 Watercraft Survey at the request of the Arizona State Parks Board in order to get a broader representation of lake/river use in Arizona. This process again proved successful in that 60 lakes/ivers are represented when the data is calculated using the 12-month data set compared to only 44 when the two-week data set is used.

### 6.1 Two-Week Data Set

The total number of days of use for each lake by boat class was obtained by summing days of use for all respondents in the sample for each class at each lake. In order to assure that each boat class was proportionately represented in the final calculation of boat usage at each lake, the total number of boats in a class was divided by the total number of respondents in each class. As a result of this division, a survey sample factor was generated for each class.

$$\begin{aligned}
 \text{Sample Factor} &= \frac{\text{Boats in Class 1}}{\text{Survey Respondents in Class 1}} \\
 &= \frac{25.085}{537} \\
 &= 46.71
 \end{aligned}$$

Days of usage at each lake or river from each boat class were then multiplied by the respective class sample factor and number of study segments (24) to obtain the total usage days for the lake or river for the respective class. By aggregating the calculated usage days over all classes, the total boat usage for each lake was determined.

|                                                  |   |                  |   |                   |   |                                  |
|--------------------------------------------------|---|------------------|---|-------------------|---|----------------------------------|
| Sample Use Days<br>by Boat Class at<br>Each Lake | X | Sample<br>Factor | X | Study<br>Segments | = | Boat Use<br>Days at<br>Each Lake |
|--------------------------------------------------|---|------------------|---|-------------------|---|----------------------------------|

Person use days for each lake were then calculated by multiplying the boat use days at each lake by the average boating party size for that lake.

|                                  |   |                                    |   |                                    |
|----------------------------------|---|------------------------------------|---|------------------------------------|
| Boat Use<br>Days at<br>Each Lake | X | Mean Party<br>Size at<br>Each Lake | = | Person Use<br>Days at<br>Each Lake |
|----------------------------------|---|------------------------------------|---|------------------------------------|

**TABLE 21: SURVEY SAMPLE FACTOR**

| BOAT<br>CLASS     | TOTAL BOATS<br>IN CLASS | RESPONDENTS<br>IN CLASS | SAMPLE<br>FACTOR |
|-------------------|-------------------------|-------------------------|------------------|
| <b>ARIZONA</b>    |                         |                         |                  |
| 1                 | 25,085                  | 537                     | 46.71            |
| 2                 | 26,614                  | 605                     | 43.99            |
| 3                 | 5,611                   | 146                     | 38.43            |
| 4                 | 29,030                  | 666                     | 43.59            |
| 5                 | 36,239                  | 795                     | 45.58            |
| 6                 | 1,044                   | 24                      | 43.50            |
| 7                 | 2,013                   | 97                      | 20.75            |
| 8                 | 8,500                   | 172                     | 49.42            |
| 9                 | 500                     | 24                      | 20.83            |
| <b>CALIFORNIA</b> |                         |                         |                  |
| 1                 | 55,396                  | 365                     | 151.77           |
| 2                 | 129,218                 | 893                     | 144.70           |
| 3                 | 15,108                  | 121                     | 124.86           |
| 4                 | 45,617                  | 314                     | 145.28           |
| 5                 | 106,087                 | 702                     | 151.12           |
| 6                 | 10,195                  | 96                      | 106.20           |
| 7                 | 1,530                   | 24                      | 63.75            |
| 8                 | 11,633                  | 72                      | 161.57           |
| 9                 | 6,717                   | 121                     | 55.51            |
| <b>NEVADA</b>     |                         |                         |                  |
| 1                 | 2,827                   | 48                      | 58.90            |
| 2                 | 6,777                   | 147                     | 46.10            |
| 3                 | 23                      | 0                       | 0                |
| 4                 | 3,224                   | 73                      | 44.16            |
| 5                 | 9,002                   | 165                     | 54.56            |
| 6                 | 183                     | 24                      | 7.63             |
| 7                 | 183                     | 24                      | 7.63             |
| 8                 | 1,665                   | 24                      | 69.38            |
| 9                 | 80                      | 24                      | 3.33             |
| <b>UTAH</b>       |                         |                         |                  |
| 1                 | 14,105                  | 72                      | 195.90           |
| 2                 | 13,322                  | 74                      | 180.03           |
| 3                 | 1,093                   | 24                      | 45.54            |
| 4                 | 13,292                  | 73                      | 182.08           |
| 5                 | 30,168                  | 144                     | 209.50           |
| 6                 | 1,233                   | 24                      | 51.38            |
| 7                 | 849                     | 24                      | 35.38            |
| 8                 | 2,296                   | 25                      | 91.84            |
| 9                 | 163                     | 24                      | 6.79             |

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The next two tables provide summaries of boat use days (Table 22) and person use days (Table 23). Looking first at boat use days, we find that total boat use days in 2009 were 3,301,629 – a 31 percent decrease from the 4,793,501 boat use days recorded in 2006. Similar to the prior studies, Mohave County is the dominant boating location in Arizona with 46.3 percent of total boat use days – a figure which is down slightly from the 49.9 percent recorded in 2006

TABLE 22: BOAT USE DAYS BY COUNTY –
OVERALL SUMMARY (2 WEEK DATA)

	<u>2009</u>		<u>2006</u>		<u>2003</u>	
	Total	%	Total	%	Total	%
Mohave	1,527,284	46.3%	2,393,398	49.9%	1,318,838	40.8%
La Paz	640,550	19.4	624,518	13.0	442,153	13.7
Maricopa	401,409	12.2	701,931	14.6	650,668	20.2
Coconino	371,676	11.2	412,568	8.6	320,626	9.9
Gila	175,498	5.3	302,518	6.3	161,640	5.0
Yuma	74,171	2.2	290,325	6.1	216,476	6.7
Navajo	34,284	1.0	2,920	.1	5,203	.2
Cochise	33,335	1.0	8,363	.2	22,998	.7
Apache	22,392	.7	34,766	.7	35,348	1.1
Santa Cruz	16,021	.5	13,241	.3	48,881	1.5
Yavapai	5,009	.2	581	*	3,721	.1
Pinal	0	0	8,374	.2	0	0
Graham	0	0	0	0	2,602	.1
Pima	0	0	0	0	0	0
Greenlee	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL	3,301,629	100.0%	4,793,501	100.0%	3,229,153	100.0%

NOTE: 2009, 2006 and 2003 data differs from the prior studies in the following ways: 1) all use on Alamo Lake attributed to La Paz County, not divided equally between La Paz and Mohave; 2) all use on San Carlos Lake attributed to Gila County, not divided equally between Gila, Graham and Pinal; 3) 10% of Lake Havasu use attributed to La Paz County, not all to Mohave; 4) new category Ehrenberg to north end of Martinez Lake attributed to La Paz County.

* Indicates % less than .1

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Looking next at person use days, Table 23 reveals that person use days decreased from 23,409,303 in 2006 to 15,941,792 in 2009 – a 32 percent decrease. As in the case with boat use days, Mohave County is the dominant boating location in Arizona accounting for 47.6 percent of all person use days followed by La Paz County with 20.2 percent.

TABLE 23: PERSON USE DAYS BY COUNTY –  
OVERALL SUMMARY (2 WEEK DATA)

|            | <u>2009</u> |          | <u>2006</u> |          | <u>2003</u> |          |
|------------|-------------|----------|-------------|----------|-------------|----------|
|            | Total       | %        | Total       | %        | Total       | %        |
| Mohave     | 7,593,709   | 47.6%    | 12,232,373  | 52.2%    | 6,437,111   | 43.5%    |
| La Paz     | 3,212,827   | 20.2     | 3,165,071   | 13.5     | 2,238,893   | 15.1     |
| Coconino   | 2,247,649   | 14.1     | 2,339,770   | 10.0     | 1,511,979   | 10.2     |
| Maricopa   | 1,526,984   | 9.6      | 2,928,754   | 12.5     | 2,478,485   | 16.8     |
| Gila       | 551,248     | 3.5      | 1,110,862   | 4.7      | 674,120     | 4.6      |
| Yuma       | 381,512     | 2.4      | 1,417,070   | 6.1      | 1,067,745   | 7.2      |
| Cochise    | 161,574     | 1.0      | 66,902      | .3       | 54,103      | .4       |
| Navajo     | 129,302     | .8       | 5,840       | *        | 19,078      | .1       |
| Santa Cruz | 65,539      | .4       | 32,824      | .1       | 179,535     | 1.2      |
| Apache     | 58,663      | .4       | 92,508      | .4       | 111,920     | .8       |
| Yavapai    | 12,785      | *        | 581         | *        | 3,721       | *        |
| Pinal      | 0           | 0        | 16,747      | .1       | 0           | 0        |
| Graham     | 0           | 0        | 0           | 0        | 0           | 0        |
| Pima       | 0           | 0        | 0           | 0        | 0           | 0        |
| Greenlee   | <u>0</u>    | <u>0</u> | <u>0</u>    | <u>0</u> | <u>0</u>    | <u>0</u> |
| TOTAL      | 15,941,792  | 100.0%   | 23,409,303  | 100.0%   | 14,781,894  | 100.0%   |

\* Indicates % less than .1

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Boat and person use days are analyzed by state of registration in the next two tables (Tables 24 and 25). The following key findings are evident in these tables:

- Arizona boaters account for 54.7 percent of boat use days (up from 47.8% in 2006) followed by California boaters with 34.6 percent (down from 42.7% in 2006), Nevada boaters with 5.7 percent and Utah boaters with 5.0 percent. These figures represent a major shift in percentage of boat use days among Arizona and California boaters since the last study.
- Unlike prior studies, California boaters do not account for the largest share of person use days. Thus we find that California boaters account for 41.8 percent of person use days (down from 47.4% in 2006) compared to 46.7 percent for Arizona boaters (up from 43.7% in 2006). In the prior studies, the primary reason for California's high percentage was the fact that California boaters tended to have very large boating parties which was not necessarily the case this year.

TABLE 24: BOAT USE DAYS BY COUNTY AND STATE (2 WEEK DATA)

COUNTY	TOTAL	STATE OF REGISTRATION			
		Arizona	California	Nevada	Utah
Mohave	1,527,284	716,164	629,588	168,661	12,871
La Paz	640,550	216,662	422,485	463	940
Maricopa	401,409	401,409	0	0	0
Coconino	371,676	160,142	43,616	17,518	150,400
Gila	175,498	175,498	0	0	0
Yuma	74,171	43,644	30,527	0	0
Navajo	34,284	34,284	0	0	0
Cochise	33,335	15,817	17,518	0	0
Apache	22,392	22,392	0	0	0
Santa Cruz	16,021	16,021	0	0	0
Yavapai	5,009	5,009	0	0	0
Pinal	0	0	0	0	0
Pima	0	0	0	0	0
Graham	0	0	0	0	0
Greenlee	0	0	0	0	0
TOTAL – 2009	3,301,629	1,807,042	1,143,734	186,641	164,212
TOTAL – 2006	4,793,501	2,292,239	2,046,187	267,316	187,759
TOTAL – 2003	3,229,153	1,420,711	1,579,573	228,869	NA

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TABLE 25: PERSON USE DAYS BY COUNTY AND STATE (2 WEEK DATA)

| COUNTY       | TOTAL      | STATE OF REGISTRATION |            |           |           |
|--------------|------------|-----------------------|------------|-----------|-----------|
|              |            | Arizona               | California | Nevada    | Utah      |
| Mohave       | 7,593,709  | 3,009,108             | 3,824,175  | 669,620   | 90,806    |
| La Paz       | 3,212,827  | 896,701               | 2,308,175  | 3,249     | 4,702     |
| Coconino     | 2,247,649  | 876,274               | 294,292    | 66,014    | 1,011,069 |
| Maricopa     | 1,526,984  | 1,526,984             | 0          | 0         | 0         |
| Gila         | 551,248    | 551,248               | 0          | 0         | 0         |
| Yuma         | 381,512    | 232,898               | 148,614    | 0         | 0         |
| Cochise      | 161,574    | 76,994                | 84,580     | 0         | 0         |
| Navajo       | 129,302    | 129,302               | 0          | 0         | 0         |
| Santa Cruz   | 65,539     | 65,539                | 0          | 0         | 0         |
| Apache       | 58,663     | 58,663                | 0          | 0         | 0         |
| Yavapai      | 12,785     | 12,785                | 0          | 0         | 0         |
| Pinal        | 0          | 0                     | 0          | 0         | 0         |
| Pima         | 0          | 0                     | 0          | 0         | 0         |
| Graham       | 0          | 0                     | 0          | 0         | 0         |
| Greenlee     | 0          | 0                     | 0          | 0         | 0         |
| TOTAL – 2009 | 15,941,792 | 7,436,496             | 6,659,836  | 738,884   | 1,106,576 |
| TOTAL – 2006 | 23,409,303 | 10,223,606            | 11,086,338 | 1,170,978 | 928,381   |
| TOTAL – 2003 | 14,781,894 | 5,826,659             | 7,916,334  | 1,038,901 | NA        |

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On the next table, it may be seen that Lake Havasu continues to be the state's most utilized lake in terms of both boat use days (765,084) and person use days (3,782,193). Each of these figures is down sharply from 2006 (1,324,161 boat use days/6,636,491 person use days).

TABLE 26: BOAT/PERSON USE DAYS BY SPECIFIC LAKES/RIVERS (2 WEEK DATA)

BOAT USE DAYS

LAKE	TOTAL	STATE OF REGISTRATION			
		AZ	CA	NV	UT
Lake Havasu	688,576	442,805	233,143	4,166	8,463
Lake Mohave	387,024	136,682	203,901	46,442	0
Lake Powell	306,356	109,991	32,689	13,277	150,400
Parker Strip	294,426	83,746	210,679	0	0
Lake Mead	264,490	42,010	101,328	116,744	4,408
Pleasant	198,328	198,328	0	0	0
Headgate Dam - Ehrenberg	195,911	37,862	158,049	0	0
Roosevelt	162,944	162,944	0	0	0
Davis Dam/Topock	109,291	64,145	45,146	0	0
Lake Havasu	76,508	49,201	25,905	463	940
Topock Gorge	75,715	28,335	46,071	1,309	0
Martinez Lake	73,050	42,523	30,527	0	0
Bartlett	67,312	67,312	0	0	0
Canyon	55,845	55,845	0	0	0
Saguaro	49,074	49,074	0	0	0
Ehrenberg - North Martinez	39,786	18,908	20,879	0	0
Alamo	33,919	26,945	6,973	0	0
Parker Canyon	33,335	15,817	17,518	0	0
Apache	26,474	26,474	0	0	0
Willow Springs	19,140	14,900	0	4,241	0
Patagonia	16,021	16,021	0	0	0
Big	16,014	16,014	0	0	0
San Carlos	12,554	12,554	0	0	0
Bear Canyon	10,927	0	10,927	0	0
Lees Ferry	10,490	10,490	0	0	0
White Mtn	7,847	7,847	0	0	0
Blue Ridge	7,776	7,776	0	0	0
Woods Canyon	7,052	7,052	0	0	0
Cooley	6,726	6,726	0	0	0
Black Canyon	6,528	6,528	0	0	0
Clear Creek	6,456	6,456	0	0	0
Upper Lake Mary	5,530	5,530	0	0	0
Horseshoe	4,376	4,376	0	0	0
Fools Hollow	3,363	3,363	0	0	0
Show Low	3,363	3,363	0	0	0
Mormon	3,282	3,282	0	0	0
Lynx	2,767	2,767	0	0	0
Goldwater	2,242	2,242	0	0	0
Hawley	2,242	2,242	0	0	0
Grand Canyon	2,188	2,188	0	0	0
Reservation	2,092	2,092	0	0	0
Becker	1,121	1,121	0	0	0
Dogtown	1,121	1,121	0	0	0
Squaw Lake	1,121	1,121	0	0	0
Crescent	922	922	0	0	0
TOTAL	3,301,629	1,807,042	1,143,734	186,641	164,212

(Continue)

(CONT) TABLE 26: BOAT/PERSON USE DAYS BY SPECIFIC LAKES/RIVERS (2 WEEK DATA)

PERSON USE DAYS

LAKE	TOTAL	STATE OF REGISTRATION			
		AZ	CA	NV	UT
Lake Havasu	3,403,973	1,915,740	1,416,676	29,243	42,314
Lake Powell	2,069,135	739,024	261,510	57,533	1,011,069
Lake Mohave	2,051,613	589,861	1,348,933	112,819	0
Parker Strip	1,692,871	409,702	1,283,170	0	0
Lake Mead	1,497,984	249,175	680,615	519,702	48,492
Headgate Dam - Ehrenberg	863,336	124,371	738,964	0	0
Pleasant	794,671	794,671	0	0	0
Roosevelt	522,554	522,554	0	0	0
Davis Dam/Topock	396,188	179,485	216,703	0	0
Lake Havasu	378,219	212,860	157,408	3,249	4,702
Martinez Lake	377,028	228,414	148,614	0	0
Bartlett	277,483	277,483	0	0	0
Topock Gorge	230,825	61,720	161,248	7,857	0
Ehrenberg - North Martinez	207,425	92,739	114,686	0	0
Canyon	171,348	171,348	0	0	0
Parker Canyon	161,574	76,994	84,580	0	0
Saguaro	154,619	154,619	0	0	0
Apache	111,360	111,360	0	0	0
White Mtn	78,473	78,473	0	0	0
Alamo	70,976	57,029	13,947	0	0
Patagonia	65,539	65,539	0	0	0
Willow Springs	55,120	46,639	0	8,482	0
Big	41,970	41,970	0	0	0
Bear Canyon	32,782	0	32,782	0	0
Lees Ferry	31,471	31,471	0	0	0
San Carlos	28,695	28,695	0	0	0
Woods Canyon	22,676	22,676	0	0	0
Black Canyon	17,738	17,738	0	0	0
Horseshoe	17,503	17,503	0	0	0
Blue Ridge	15,552	15,552	0	0	0
Grand Canyon	13,127	13,127	0	0	0
Clear Creek	12,912	12,912	0	0	0
Upper Lake Mary	12,107	12,107	0	0	0
Lynx	8,301	8,301	0	0	0
Cooley	6,726	6,726	0	0	0
Fools Hollow	6,726	6,726	0	0	0
Show Low	6,726	6,726	0	0	0
Mormon	6,564	6,564	0	0	0
Reservation	6,277	6,277	0	0	0
Goldwater	4,484	4,484	0	0	0
Hawley	4,484	4,484	0	0	0
Squaw Lake	4,484	4,484	0	0	0
Crescent	3,689	3,689	0	0	0
Becker	2,242	2,242	0	0	0
Dogtown	2,242	2,242	0	0	0
TOTAL	15,941,792	7,436,496	6,659,836	738,884	1,106,576

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On the following pages are presented detailed tables on watercraft usage in Arizona. These tables are presented on a state-by-state basis.

TABLE 27: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: APACHE   |       |      |      |      |   |   |   |   |   | BOAT CLASS    |                 |                 |
|------------------|-------|------|------|------|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake             | 1     | 2    | 3    | 4    | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Becker           | 1121  | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 1121          | 2               | 2242            |
| Big              | 10089 | 2112 | 2767 | 1046 | 0 | 0 | 0 | 0 | 0 | 16014         | 2.62            | 41970           |
| Bunch            | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Concho           | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Crescent         | 0     | 0    | 922  | 0    | 0 | 0 | 0 | 0 | 0 | 922           | 4               | 3689            |
| Drift Fence      | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Hawley           | 2242  | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 2242          | 2               | 4484            |
| Luna             | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lyman            | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Mexican Hay      | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Nelson Reservoir | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Reservation      | 0     | 0    | 0    | 2092 | 0 | 0 | 0 | 0 | 0 | 2092          | 3               | 6277            |
| Sunrise          | 0     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL            | 13452 | 2112 | 3689 | 3138 | 0 | 0 | 0 | 0 | 0 | 22392         |                 | 58663           |

| COUNTY: COCHISE |   |       |   |      |   |   |   |   |   | BOAT CLASS    |                 |                 |
|-----------------|---|-------|---|------|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake            | 1 | 2     | 3 | 4    | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Parker Canyon   | 0 | 13725 | 0 | 2092 | 0 | 0 | 0 | 0 | 0 | 15817         | 4.87            | 76994           |
| TOTAL           | 0 | 13725 | 0 | 2092 | 0 | 0 | 0 | 0 | 0 | 15817         |                 | 76994           |

| COUNTY: COCONINO |       |       |       |       |       |   |      |       |   | BOAT CLASS    |                 |                 |
|------------------|-------|-------|-------|-------|-------|---|------|-------|---|---------------|-----------------|-----------------|
| Lake             | 1     | 2     | 3     | 4     | 5     | 6 | 7    | 8     | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Ashurst          | 0     | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 0             | 0               | 0               |
| Bear Canyon      | 0     | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 0             | 0               | 0               |
| Blue Ridge       | 2242  | 0     | 5534  | 0     | 0     | 0 | 0    | 0     | 0 | 7776          | 2               | 15552           |
| Cataract         | 0     | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 0             | 0               | 0               |
| Dogtown          | 1121  | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 1121          | 2               | 2242            |
| Kaibab           | 0     | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 0             | 0               | 0               |
| Knoll            | 0     | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 0             | 0               | 0               |
| Lake Powell      | 6726  | 49621 | 0     | 3138  | 29536 | 0 | 1992 | 18977 | 0 | 109991        | 6.72            | 739024          |
| Lees Ferry       | 0     | 3167  | 0     | 7323  | 0     | 0 | 0    | 0     | 0 | 10490         | 3               | 31471           |
| Long             | 0     | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 0             | 0               | 0               |
| Mormon           | 0     | 0     | 0     | 0     | 3282  | 0 | 0    | 0     | 0 | 3282          | 2               | 6564            |
| Upper Lake Mary  | 4484  | 0     | 0     | 1046  | 0     | 0 | 0    | 0     | 0 | 5530          | 2.19            | 12107           |
| Whitehorse       | 0     | 0     | 0     | 0     | 0     | 0 | 0    | 0     | 0 | 0             | 0               | 0               |
| Willow Springs   | 11210 | 0     | 3689  | 0     | 0     | 0 | 0    | 0     | 0 | 14900         | 3.13            | 46639           |
| Woods Canyon     | 3363  | 0     | 3689  | 0     | 0     | 0 | 0    | 0     | 0 | 7052          | 3.22            | 22676           |
| TOTAL            | 29147 | 52788 | 12912 | 11508 | 32818 | 0 | 1992 | 18977 | 0 | 160142        |                 | 876274          |

TABLE 27: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: GILA |            |       |      |       |       |   |   |       |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|------------|-------|------|-------|-------|---|---|-------|------|------------------|--------------------|--------------------|
| Lake         | BOAT CLASS |       |      |       |       |   |   |       |      |                  |                    |                    |
|              | 1          | 2     | 3    | 4     | 5     | 6 | 7 | 8     | 9    |                  |                    |                    |
| Roosevelt    | 42600      | 13725 | 1845 | 58585 | 18597 | 0 | 0 | 26094 | 1500 | 162944           | 3.21               | 522554             |
| San Carlos   | 0          | 0     | 0    | 12554 | 0     | 0 | 0 | 0     | 0    | 12554            | 2.29               | 28695              |
| TOTAL        | 42600      | 13725 | 1845 | 71139 | 18597 | 0 | 0 | 26094 | 1500 | 175498           |                    | 551248             |

| COUNTY: GRAHAM |            |   |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|------------|---|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake           | BOAT CLASS |   |   |   |   |   |   |   |   |                  |                    |                    |
|                | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Roper          | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL          | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                |                    | 0                  |

| COUNTY: LA PAZ             |            |       |   |        |       |   |     |      |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------------------|------------|-------|---|--------|-------|---|-----|------|---|------------------|--------------------|--------------------|
| Lake                       | BOAT CLASS |       |   |        |       |   |     |      |   |                  |                    |                    |
|                            | 1          | 2     | 3 | 4      | 5     | 6 | 7   | 8    | 9 |                  |                    |                    |
| Alamo                      | 1121       | 0     | 0 | 9415   | 16409 | 0 | 0   | 0    | 0 | 26945            | 2.12               | 57029              |
| Ehrenberg                  | 0          | 1056  | 0 | 32431  | 4376  | 0 | 0   | 0    | 0 | 37862            | 3.28               | 124371             |
| Ehrenberg - North Martinez | 0          | 8446  | 0 | 10462  | 0     | 0 | 0   | 0    | 0 | 18908            | 4.9                | 92739              |
| Lake Havasu                | 673        | 6862  | 0 | 16425  | 16628 | 0 | 548 | 8065 | 0 | 49201            | 4.33               | 212860             |
| Parker Strip               | 0          | 26394 | 0 | 37662  | 19691 | 0 | 0   | 0    | 0 | 83746            | 4.89               | 409702             |
| TOTAL                      | 1794       | 42758 | 0 | 106394 | 57103 | 0 | 548 | 8065 | 0 | 216662           |                    | 896701             |

| COUNTY: MARICOPA |            |       |      |       |       |      |      |   |     | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------------|-------|------|-------|-------|------|------|---|-----|------------------|--------------------|--------------------|
| Lake             | BOAT CLASS |       |      |       |       |      |      |   |     |                  |                    |                    |
|                  | 1          | 2     | 3    | 4     | 5     | 6    | 7    | 8 | 9   |                  |                    |                    |
| Apache           | 4484       | 13725 | 1845 | 3138  | 3282  | 0    | 0    | 0 | 0   | 26474            | 4.21               | 111360             |
| Bartlett         | 32510      | 15836 | 1845 | 8369  | 8751  | 0    | 0    | 0 | 0   | 67312            | 4.12               | 277483             |
| Canyon           | 12331      | 10558 | 0    | 20923 | 12033 | 0    | 0    | 0 | 0   | 55845            | 3.07               | 171348             |
| Horseshoe        | 0          | 0     | 0    | 0     | 4376  | 0    | 0    | 0 | 0   | 4376             | 4                  | 17503              |
| Pleasant         | 61657      | 33784 | 4612 | 35569 | 60166 | 1044 | 996  | 0 | 500 | 198328           | 4.01               | 794671             |
| Saguaro          | 8968       | 7390  | 0    | 24062 | 7657  | 0    | 996  | 0 | 0   | 49074            | 3.15               | 154619             |
| Salt River       | 0          | 0     | 0    | 0     | 0     | 0    | 0    | 0 | 0   | 0                | 0                  | 0                  |
| Tempe Town       | 0          | 0     | 0    | 0     | 0     | 0    | 0    | 0 | 0   | 0                | 0                  | 0                  |
| Verde River      | 0          | 0     | 0    | 0     | 0     | 0    | 0    | 0 | 0   | 0                | 0                  | 0                  |
| TOTAL            | 119951     | 81294 | 8301 | 92062 | 96265 | 1044 | 1992 | 0 | 500 | 401409           |                    | 1526984            |

| COUNTY: MOHAVE   |            |       |      |        |        |   |      |       |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------------|-------|------|--------|--------|---|------|-------|---|------------------|--------------------|--------------------|
| Lake             | BOAT CLASS |       |      |        |        |   |      |       |   |                  |                    |                    |
|                  | 1          | 2     | 3    | 4      | 5      | 6 | 7    | 8     | 9 |                  |                    |                    |
| Davis Dam/Topock | 19058      | 28506 | 922  | 9415   | 2188   | 0 | 498  | 3558  | 0 | 64145            | 2.8                | 179485             |
| Grand Canyon     | 0          | 0     | 0    | 0      | 2188   | 0 | 0    | 0     | 0 | 2188             | 6                  | 13127              |
| Lake Havasu      | 6054       | 61762 | 0    | 147822 | 149648 | 0 | 4930 | 72588 | 0 | 442805           | 4.33               | 1915740            |
| Lake Mead        | 0          | 6335  | 2767 | 21969  | 10939  | 0 | 0    | 0     | 0 | 42010            | 5.93               | 249175             |
| Lake Mohave      | 1121       | 41175 | 0    | 10462  | 65635  | 0 | 498  | 17791 | 0 | 136682           | 4.32               | 589861             |

TABLE 27: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: MOHAVE |       |        |      |        |        |   |      |       |   | BOAT CLASS |      |         | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|-------|--------|------|--------|--------|---|------|-------|---|------------|------|---------|------------------|--------------------|--------------------|
| Lake           | 1     | 2      | 3    | 4      | 5      | 6 | 7    | 8     | 9 |            |      |         |                  |                    |                    |
| Topock Gorge   | 6726  | 2112   | 0    | 2092   | 16409  | 0 | 996  | 0     | 0 | 28335      | 2.18 | 61720   |                  |                    |                    |
| TOTAL          | 32959 | 139888 | 3689 | 191761 | 247007 | 0 | 6922 | 93938 | 0 | 716164     |      | 3009108 |                  |                    |                    |

| COUNTY: NAVAJO |       |   |      |   |   |   |   |   |   | BOAT CLASS |      |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|-------|---|------|---|---|---|---|---|---|------------|------|--------|------------------|--------------------|--------------------|
| Lake           | 1     | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9 |            |      |        |                  |                    |                    |
| Black Canyon   | 5605  | 0 | 922  | 0 | 0 | 0 | 0 | 0 | 0 | 6528       | 2.72 | 17738  |                  |                    |                    |
| Cholla         | 0     | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0      |                  |                    |                    |
| Clear Creek    | 0     | 0 | 6456 | 0 | 0 | 0 | 0 | 0 | 0 | 6456       | 2    | 12912  |                  |                    |                    |
| Cooley         | 6726  | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 6726       | 1    | 6726   |                  |                    |                    |
| Fools Hollow   | 3363  | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 3363       | 2    | 6726   |                  |                    |                    |
| Rainbow        | 0     | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0      |                  |                    |                    |
| Show Low       | 3363  | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 3363       | 2    | 6726   |                  |                    |                    |
| White Mtn      | 7847  | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 7847       | 10   | 78473  |                  |                    |                    |
| TOTAL          | 26905 | 0 | 7379 | 0 | 0 | 0 | 0 | 0 | 0 | 34284      |      | 129302 |                  |                    |                    |

| COUNTY: PIMA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Arivaca      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Silverbell   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          |   | 0 |                  |                    |                    |

| COUNTY: PINAL     |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Picacho Reservoir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          |   | 0 |                  |                    |                    |

| COUNTY: SANTA CRUZ |      |      |     |      |      |   |   |   |   | BOAT CLASS |      |       | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------------|------|------|-----|------|------|---|---|---|---|------------|------|-------|------------------|--------------------|--------------------|
| Lake               | 1    | 2    | 3   | 4    | 5    | 6 | 7 | 8 | 9 |            |      |       |                  |                    |                    |
| Patagonia          | 4484 | 1056 | 922 | 6277 | 3282 | 0 | 0 | 0 | 0 | 16021      | 4.09 | 65539 |                  |                    |                    |
| Pena Blanca        | 0    | 0    | 0   | 0    | 0    | 0 | 0 | 0 | 0 | 0          | 0    | 0     |                  |                    |                    |
| TOTAL              | 4484 | 1056 | 922 | 6277 | 3282 | 0 | 0 | 0 | 0 | 16021      |      | 65539 |                  |                    |                    |

| COUNTY: YAVAPAI |      |   |      |   |   |   |   |   |   | BOAT CLASS |   |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|------|---|------|---|---|---|---|---|---|------------|---|------|------------------|--------------------|--------------------|
| Lake            | 1    | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9 |            |   |      |                  |                    |                    |
| Goldwater       | 2242 | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 2242       | 2 | 4484 |                  |                    |                    |
| Lynx            | 0    | 0 | 2767 | 0 | 0 | 0 | 0 | 0 | 0 | 2767       | 3 | 8301 |                  |                    |                    |
| Watson          | 0    | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0    |                  |                    |                    |

TABLE 27: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: YAVAPAI |            |   |      |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|------------|---|------|---|---|---|---|---|---|------------------|--------------------|--------------------|
|                 | BOAT CLASS |   |      |   |   |   |   |   |   |                  |                    |                    |
| Lake            | 1          | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| TOTAL           | 2242       | 0 | 2767 | 0 | 0 | 0 | 0 | 0 | 0 | 5009             |                    | 12785              |

| COUNTY: YUMA  |            |      |   |       |       |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|------------|------|---|-------|-------|---|---|---|---|------------------|--------------------|--------------------|
|               | BOAT CLASS |      |   |       |       |   |   |   |   |                  |                    |                    |
| Lake          | 1          | 2    | 3 | 4     | 5     | 6 | 7 | 8 | 9 |                  |                    |                    |
| Martinez Lake | 1121       | 8446 | 0 | 20923 | 12033 | 0 | 0 | 0 | 0 | 42523            | 5.37               | 228414             |
| Mittry        | 0          | 0    | 0 | 0     | 0     | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Squaw Lake    | 1121       | 0    | 0 | 0     | 0     | 0 | 0 | 0 | 0 | 1121             | 4                  | 4484               |
| TOTAL         | 2242       | 8446 | 0 | 20923 | 12033 | 0 | 0 | 0 | 0 | 43644            |                    | 232898             |

TABLE 28: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: APACHE   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|------------|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
|                  | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |               |                 |                 |
| Lake             |            |   |   |   |   |   |   |   |   |               |                 |                 |
| Becker           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Big              | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Bunch            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Concho           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Crescent         | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Drift Fence      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Hawley           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Luna             | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lyman            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Mexican Hay      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Nelson Reservoir | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Reservation      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Sunrise          | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

| COUNTY: COCHISE | BOAT CLASS |       |   |   |      |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|-----------------|------------|-------|---|---|------|---|---|---|---|---------------|-----------------|-----------------|
|                 | 1          | 2     | 3 | 4 | 5    | 6 | 7 | 8 | 9 |               |                 |                 |
| Lake            |            |       |   |   |      |   |   |   |   |               |                 |                 |
| Parker Canyon   | 0          | 13891 | 0 | 0 | 3627 | 0 | 0 | 0 | 0 | 17518         | 4.83            | 84580           |
| TOTAL           | 0          | 13891 | 0 | 0 | 3627 | 0 | 0 | 0 | 0 | 17518         |                 | 84580           |

| COUNTY: COCONINO | BOAT CLASS |   |   |   |       |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|------------|---|---|---|-------|---|---|---|---|---------------|-----------------|-----------------|
|                  | 1          | 2 | 3 | 4 | 5     | 6 | 7 | 8 | 9 |               |                 |                 |
| Lake             |            |   |   |   |       |   |   |   |   |               |                 |                 |
| Ashurst          | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Bear Canyon      | 10927      | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 10927         | 3               | 32782           |
| Blue Ridge       | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cataract         | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Dogtown          | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Kaibab           | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Knoll            | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lake Powell      | 10927      | 0 | 0 | 0 | 21761 | 0 | 0 | 0 | 0 | 32689         | 8               | 261510          |
| Lees Ferry       | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Long             | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Mormon           | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Upper Lake Mary  | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Whitehorse       | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Willow Springs   | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Woods Canyon     | 0          | 0 | 0 | 0 | 0     | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL            | 21855      | 0 | 0 | 0 | 21761 | 0 | 0 | 0 | 0 | 43616         |                 | 294292          |

TABLE 28: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: GILA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roosevelt    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| San Carlos   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |

| COUNTY: GRAHAM |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roper          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |

| COUNTY: LA PAZ             |       |        |   |       |       |     |   |   |   | BOAT CLASS |      |         | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------------------|-------|--------|---|-------|-------|-----|---|---|---|------------|------|---------|------------------|--------------------|--------------------|
| Lake                       | 1     | 2      | 3 | 4     | 5     | 6   | 7 | 8 | 9 |            |      |         |                  |                    |                    |
| Alamo                      | 0     | 0      | 0 | 6973  | 0     | 0   | 0 | 0 | 0 | 6973       | 2    | 13947   |                  |                    |                    |
| Ehrenberg                  | 18212 | 118075 | 0 | 0     | 21761 | 0   | 0 | 0 | 0 | 158049     | 4.68 | 738964  |                  |                    |                    |
| Ehrenberg - North Martinez | 0     | 10418  | 0 | 10460 | 0     | 0   | 0 | 0 | 0 | 20879      | 5.49 | 114686  |                  |                    |                    |
| Lake Havasu                | 0     | 12502  | 0 | 1395  | 11243 | 765 | 0 | 0 | 0 | 25905      | 6.08 | 157408  |                  |                    |                    |
| Parker Strip               | 0     | 156276 | 0 | 0     | 54403 | 0   | 0 | 0 | 0 | 210679     | 6.09 | 1283170 |                  |                    |                    |
| TOTAL                      | 18212 | 297272 | 0 | 18828 | 87408 | 765 | 0 | 0 | 0 | 422485     |      | 2308175 |                  |                    |                    |

| COUNTY: MARICOPA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Apache           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Bartlett         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Canyon           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Horseshoe        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Pleasant         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Saguaro          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Salt River       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Tempe Town       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Verde River      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: MOHAVE   |   |        |   |       |        |      |   |   |   | BOAT CLASS |      |         | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|--------|---|-------|--------|------|---|---|---|------------|------|---------|------------------|--------------------|--------------------|
| Lake             | 1 | 2      | 3 | 4     | 5      | 6    | 7 | 8 | 9 |            |      |         |                  |                    |                    |
| Davis Dam/Topock | 0 | 45146  | 0 | 0     | 0      | 0    | 0 | 0 | 0 | 45146      | 4.8  | 216703  |                  |                    |                    |
| Grand Canyon     | 0 | 0      | 0 | 0     | 0      | 0    | 0 | 0 | 0 | 0          | 0    | 0       |                  |                    |                    |
| Lake Havasu      | 0 | 112519 | 0 | 12552 | 101190 | 6882 | 0 | 0 | 0 | 233143     | 6.08 | 1416676 |                  |                    |                    |
| Lake Mead        | 0 | 86820  | 0 | 0     | 14508  | 0    | 0 | 0 | 0 | 101328     | 6.72 | 680615  |                  |                    |                    |
| Lake Mohave      | 0 | 107657 | 0 | 41841 | 54403  | 0    | 0 | 0 | 0 | 203901     | 6.62 | 1348933 |                  |                    |                    |

TABLE 28: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: MOHAVE |   |        |   |       |        |      |   |   |   | BOAT CLASS    |                 |                 |
|----------------|---|--------|---|-------|--------|------|---|---|---|---------------|-----------------|-----------------|
| Lake           | 1 | 2      | 3 | 4     | 5      | 6    | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Topock Gorge   | 0 | 24310  | 0 | 0     | 21761  | 0    | 0 | 0 | 0 | 46071         | 3.5             | 161248          |
| TOTAL          | 0 | 376452 | 0 | 54393 | 191862 | 6882 | 0 | 0 | 0 | 629588        |                 | 3824175         |

| COUNTY: NAVAJO |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|----------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Black Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cholla         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Clear Creek    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cooley         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Fools Hollow   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Rainbow        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Show Low       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| White Mtn      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

| COUNTY: PIMA |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|--------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Arivaca      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Silverbell   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

| COUNTY: PINAL     |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|-------------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Picacho Reservoir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

| COUNTY: SANTA CRUZ |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|--------------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Patagonia          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Pena Blanca        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

| COUNTY: YAVAPAI |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|-----------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Goldwater       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lynx            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Watson          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

TABLE 28: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: YAVAPAI |   |   |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|---|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| BOAT CLASS      |   |   |   |   |   |   |   |   |   |                  |                    |                    |
| Lake            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| TOTAL           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                |                    | 0                  |

| COUNTY: YUMA  |   |      |      |       |      |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|---|------|------|-------|------|---|---|---|---|------------------|--------------------|--------------------|
| BOAT CLASS    |   |      |      |       |      |   |   |   |   |                  |                    |                    |
| Lake          | 1 | 2    | 3    | 4     | 5    | 6 | 7 | 8 | 9 |                  |                    |                    |
| Martinez Lake | 0 | 3473 | 5993 | 17434 | 3627 | 0 | 0 | 0 | 0 | 30527            | 4.87               | 148614             |
| Mittry        | 0 | 0    | 0    | 0     | 0    | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Squaw Lake    | 0 | 0    | 0    | 0     | 0    | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL         | 0 | 3473 | 5993 | 17434 | 3627 | 0 | 0 | 0 | 0 | 30527            |                    | 148614             |

TABLE 29 WATERCRAFT USAGE: NEVADA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: APACHE   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|------------|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
|                  | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |               |                 |                 |
| Lake             |            |   |   |   |   |   |   |   |   |               |                 |                 |
| Becker           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Big              | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Bunch            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Concho           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Crescent         | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Drift Fence      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Hawley           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Luna             | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lyman            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Mexican Hay      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Nelson Reservoir | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Reservation      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Sunrise          | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

| COUNTY: COCHISE | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|-----------------|------------|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
|                 | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |               |                 |                 |
| Lake            |            |   |   |   |   |   |   |   |   |               |                 |                 |
| Parker Canyon   | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

| COUNTY: COCONINO | BOAT CLASS |       |   |   |   |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|------------|-------|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
|                  | 1          | 2     | 3 | 4 | 5 | 6 | 7 | 8 | 9 |               |                 |                 |
| Lake             |            |       |   |   |   |   |   |   |   |               |                 |                 |
| Ashurst          | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Bear Canyon      | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Blue Ridge       | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cataract         | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Dogtown          | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Kaibab           | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Knoll            | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lake Powell      | 0          | 13277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13277         | 4.33            | 57533           |
| Lees Ferry       | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Long             | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Mormon           | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Upper Lake Mary  | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Whitehorse       | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Willow Springs   | 4241       | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4241          | 2               | 8482            |
| Woods Canyon     | 0          | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL            | 4241       | 13277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17518         |                 | 66014           |

TABLE 29 WATERCRAFT USAGE: NEVADA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: GILA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roosevelt    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| San Carlos   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |

| COUNTY: GRAHAM |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roper          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |

| COUNTY: LA PAZ             |   |     |   |   |     |   |   |   |   | BOAT CLASS |     |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------------------|---|-----|---|---|-----|---|---|---|---|------------|-----|------|------------------|--------------------|--------------------|
| Lake                       | 1 | 2   | 3 | 4 | 5   | 6 | 7 | 8 | 9 |            |     |      |                  |                    |                    |
| Alamo                      | 0 | 0   | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0          | 0   | 0    | 0                | 0                  |                    |
| Ehrenberg                  | 0 | 0   | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0          | 0   | 0    | 0                | 0                  |                    |
| Ehrenberg - North Martinez | 0 | 0   | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0          | 0   | 0    | 0                | 0                  |                    |
| Lake Havasu                | 0 | 332 | 0 | 0 | 131 | 0 | 0 | 0 | 0 | 0          | 463 | 7.02 | 3249             |                    |                    |
| Parker Strip               | 0 | 0   | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0          | 0   | 0    | 0                |                    |                    |
| TOTAL                      | 0 | 332 | 0 | 0 | 131 | 0 | 0 | 0 | 0 | 0          | 463 |      | 3249             |                    |                    |

| COUNTY: MARICOPA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Apache           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Bartlett         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Canyon           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Horseshoe        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Pleasant         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Saguaro          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Salt River       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Tempe Town       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Verde River      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

| COUNTY: MOHAVE   |      |       |   |      |       |      |      |       |     | BOAT CLASS |      |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------|-------|---|------|-------|------|------|-------|-----|------------|------|--------|------------------|--------------------|--------------------|
| Lake             | 1    | 2     | 3 | 4    | 5     | 6    | 7    | 8     | 9   |            |      |        |                  |                    |                    |
| Davis Dam/Topock | 0    | 0     | 0 | 0    | 0     | 0    | 0    | 0     | 0   | 0          | 0    | 0      | 0                |                    |                    |
| Grand Canyon     | 0    | 0     | 0 | 0    | 0     | 0    | 0    | 0     | 0   | 0          | 0    | 0      | 0                |                    |                    |
| Lake Havasu      | 0    | 2987  | 0 | 0    | 1178  | 0    | 0    | 0     | 0   | 4166       | 7.02 | 29243  |                  |                    |                    |
| Lake Mead        | 4241 | 38724 | 0 | 8479 | 56306 | 2014 | 0    | 6660  | 320 | 116744     | 4.45 | 519702 |                  |                    |                    |
| Lake Mohave      | 0    | 13277 | 0 | 1060 | 10476 | 0    | 1648 | 19981 | 0   | 46442      | 2.43 | 112819 |                  |                    |                    |

TABLE 29 WATERCRAFT USAGE: NEVADA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: MOHAVE |      |       |   |      |       |      |      |       |     | BOAT CLASS |   |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|------|-------|---|------|-------|------|------|-------|-----|------------|---|--------|------------------|--------------------|--------------------|
| Lake           | 1    | 2     | 3 | 4    | 5     | 6    | 7    | 8     | 9   |            |   |        |                  |                    |                    |
| Topock Gorge   | 0    | 0     | 0 | 0    | 1309  | 0    | 0    | 0     | 0   | 1309       | 6 | 7857   |                  |                    |                    |
| TOTAL          | 4241 | 54988 | 0 | 9539 | 69269 | 2014 | 1648 | 26642 | 320 | 168661     |   | 669620 |                  |                    |                    |

| COUNTY: NAVAJO |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Black Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Cholla         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Clear Creek    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Cooley         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Fools Hollow   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Rainbow        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Show Low       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| White Mtn      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: PIMA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Arivaca      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Silverbell   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: PINAL     |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Picacho Reservoir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: SANTA CRUZ |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Patagonia          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Pena Blanca        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: YAVAPAI |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Goldwater       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Lynx            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| Watson          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

TABLE 29 WATERCRAFT USAGE: NEVADA REGISTERED BOATS (2 WEEK DATA)

| COUNTY: YAVAPAI |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| TOTAL           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

| COUNTY: YUMA  |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake          | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Martinez Lake | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Mittry        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Squaw Lake    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

TABLE 30 WATERCRAFT USAGE: UTAH REGISTERED BOATS (2 WEEK DATA)

| COUNTY: APACHE   |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|---|---|---|---|---|---|---|---|---|------------|---|---|---------------|-----------------|-----------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |               |                 |                 |
| Becker           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Big              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Bunch            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Concho           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Crescent         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Drift Fence      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Hawley           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Luna             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Lyman            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Mexican Hay      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Nelson Reservoir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Reservation      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| Sunrise          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| TOTAL            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |

| COUNTY: COCHISE |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|-----------------|---|---|---|---|---|---|---|---|---|------------|---|---|---------------|-----------------|-----------------|
| Lake            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |               |                 |                 |
| Parker Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| TOTAL           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |

| COUNTY: COCONINO |   |       |   |   |       |      |       |      |     | BOAT CLASS |      |         | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|---|-------|---|---|-------|------|-------|------|-----|------------|------|---------|---------------|-----------------|-----------------|
| Lake             | 1 | 2     | 3 | 4 | 5     | 6    | 7     | 8    | 9   |            |      |         |               |                 |                 |
| Ashurst          | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Bear Canyon      | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Blue Ridge       | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Cataract         | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Dogtown          | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Kaibab           | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Knoll            | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Lake Powell      | 0 | 47528 | 0 | 0 | 65364 | 9865 | 20379 | 6612 | 652 | 150400     | 6.72 | 1011069 |               |                 |                 |
| Lees Ferry       | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Long             | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Mormon           | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Upper Lake Mary  | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Whitehorse       | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Willow Springs   | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| Woods Canyon     | 0 | 0     | 0 | 0 | 0     | 0    | 0     | 0    | 0   | 0          | 0    | 0       | 0             | 0               |                 |
| TOTAL            | 0 | 47528 | 0 | 0 | 65364 | 9865 | 20379 | 6612 | 652 | 150400     |      | 1011069 |               |                 |                 |

TABLE 30 WATERCRAFT USAGE: UTAH REGISTERED BOATS (2 WEEK DATA)

| COUNTY: GILA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|---------------|-----------------|-----------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |               |                 |                 |
| Roosevelt    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| San Carlos   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |

| COUNTY: GRAHAM |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|---------------|-----------------|-----------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |               |                 |                 |
| Roper          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             | 0               |                 |

| COUNTY: LA PAZ             |     |   |   |   |   |   |   |   |   | BOAT CLASS |     |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|----------------------------|-----|---|---|---|---|---|---|---|---|------------|-----|---|---------------|-----------------|-----------------|
| Lake                       | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |     |   |               |                 |                 |
| Alamo                      | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0             | 0               |                 |
| Ehrenberg                  | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0             | 0               |                 |
| Ehrenberg - North Martinez | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0             | 0               |                 |
| Lake Havasu                | 940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 940 | 5 | 4702          |                 |                 |
| Parker Strip               | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0             |                 |                 |
| TOTAL                      | 940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 940 |   | 4702          |                 |                 |

| COUNTY: MARICOPA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|---|---|---|---|---|---|---|---|---|------------|---|---|---------------|-----------------|-----------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |               |                 |                 |
| Apache           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Bartlett         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Canyon           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Horseshoe        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Pleasant         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Saguaro          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Salt River       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Tempe Town       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| Verde River      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |
| TOTAL            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0             |                 |                 |

| COUNTY: MOHAVE   |      |   |   |   |   |   |   |      |   | BOAT CLASS |      |    | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
|------------------|------|---|---|---|---|---|---|------|---|------------|------|----|---------------|-----------------|-----------------|
| Lake             | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8    | 9 |            |      |    |               |                 |                 |
| Davis Dam/Topock | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0 | 0          | 0    | 0  | 0             |                 |                 |
| Grand Canyon     | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0 | 0          | 0    | 0  | 0             |                 |                 |
| Lake Havasu      | 8463 | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0 | 0          | 8463 | 5  | 42314         |                 |                 |
| Lake Mead        | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 4408 | 0 | 0          | 4408 | 11 | 48492         |                 |                 |
| Lake Mohave      | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0 | 0          | 0    | 0  | 0             |                 |                 |

TABLE 30 WATERCRAFT USAGE: UTAH REGISTERED BOATS (2 WEEK DATA)

| COUNTY: MOHAVE |      |   |   |   |   |   |   |      |   | BOAT CLASS |       |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|------|---|---|---|---|---|---|------|---|------------|-------|---|------------------|--------------------|--------------------|
| Lake           | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8    | 9 |            |       |   |                  |                    |                    |
| Topock Gorge   | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0 | 0          | 0     | 0 | 0                | 0                  |                    |
| TOTAL          | 8463 | 0 | 0 | 0 | 0 | 0 | 0 | 4408 | 0 | 0          | 12871 |   | 90806            |                    |                    |

| COUNTY: NAVAJO |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Black Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Cholla         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Clear Creek    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Cooley         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Fools Hollow   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Rainbow        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Show Low       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| White Mtn      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

| COUNTY: PIMA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Arivaca      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Silverbell   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

| COUNTY: PINAL     |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Picacho Reservoir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

| COUNTY: SANTA CRUZ |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Patagonia          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Pena Blanca        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

| COUNTY: YAVAPAI |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Goldwater       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Lynx            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Watson          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

TABLE 30 WATERCRAFT USAGE: UTAH REGISTERED BOATS (2 WEEK DATA)

| COUNTY: YAVAPAI |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| TOTAL           | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: YUMA  |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake          | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Martinez Lake | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Mittry        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Squaw Lake    | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL         | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

## 6.2 12 Month Data Set

The next series of tables (Table 31 to Table 39) present the boat and person use data on the 12 month data set.

**TABLE 31: BOAT USE DAYS BY COUNTY –  
OVERALL SUMMARY (12 MONTH DATA)**

|              | <u>2009</u>      |               | <u>2006</u>      |               | <u>2003</u>      |               |
|--------------|------------------|---------------|------------------|---------------|------------------|---------------|
|              | Total            | %             | Total            | %             | Total            | %             |
| Mohave       | 526,846          | 46.3%         | 294,486          | 47.4%         | 1,010,198        | 49.4%         |
| La Paz       | 168,485          | 14.8          | 277,188          | 14.6          | 299,971          | 14.7          |
| Coconino     | 158,600          | 14.0          | 209,855          | 11.1          | 196,329          | 9.6           |
| Maricopa     | 152,534          | 13.4          | 294,486          | 15.5          | 334,043          | 16.3          |
| Gila         | 55,291           | 4.9           | 89,784           | 4.7           | 69,841           | 3.4           |
| Yuma         | 32,053           | 2.8           | 72,509           | 3.8           | 74,294           | 3.6           |
| Apache       | 18,011           | 1.6           | 23,767           | 1.3           | 31,209           | 1.5           |
| Navajo       | 10,332           | .9            | 8,523            | .4            | 4,192            | .2            |
| Cochise      | 7,782            | .7            | 9,968            | .5            | 5,830            | .3            |
| Santa Cruz   | 4,983            | .4            | 7,497            | .4            | 18,224           | .9            |
| Pima         | 1,812            | .2            | 1,379            | .1            | 881              | *             |
| Yavapai      | 871              | *             | 678              | *             | 0                | 0             |
| Graham       | 0                | 0             | 1,675            | .1            | 0                | 0             |
| Pinal        | 0                | 0             | 638              | *             | 1,469            | 9             |
| Greenlee     | <u>0</u>         | <u>0</u>      | <u>0</u>         | <u>0</u>      | <u>0</u>         | <u>0</u>      |
| <b>TOTAL</b> | <b>1,137,600</b> | <b>100.0%</b> | <b>1,896,383</b> | <b>100.0%</b> | <b>2,046,481</b> | <b>100.0%</b> |

\* Indicates % less than .1

TABLE 32: PERSON USE DAYS BY COUNTY –  
OVERALL SUMMARY (12 MONTH DATA)

|            | <u>2009</u>  |          | <u>2006</u>  |          | <u>2003</u>  |          |
|------------|--------------|----------|--------------|----------|--------------|----------|
|            | <u>Total</u> | <u>%</u> | <u>Total</u> | <u>%</u> | <u>Total</u> | <u>%</u> |
| Mohave     | 2,921,133    | 47.6%    | 4,788,074    | 51.8%    | 5,850,043    | 52.2%    |
| Coconino   | 1,140,934    | 18.6     | 1,325,507    | 14.3     | 1,405,410    | 12.5     |
| La Paz     | 984,457      | 16.0     | 1,170,867    | 12.7     | 1,717,705    | 15.3     |
| Maricopa   | 610,799      | 10.0     | 1,159,392    | 12.5     | 1,354,593    | 12.1     |
| Gila       | 210,884      | 3.4      | 307,145      | 3.3      | 242,120      | 2.2      |
| Yuma       | 113,664      | 1.9      | 292,870      | 3.2      | 411,738      | 3.7      |
| Apache     | 64,268       | 1.0      | 86,435       | .9       | 101,735      | .9       |
| Cochise    | 41,148       | .7       | 45,300       | .5       | 18,949       | .2       |
| Navajo     | 25,026       | .4       | 24,219       | .3       | 30,593       | .3       |
| Santa Cruz | 15,405       | .3       | 29,300       | .3       | 68,279       | .6       |
| Pima       | 4,969        | .1       | 3,578        | *        | 2,027        | *        |
| Yavapai    | 2,676        | *        | 1,555        | *        | 0            | 0        |
| Graham     | 0            | 0        | 4,187        | *        | 0            | 0        |
| Pinal      | 0            | 0        | 1,277        | *        | 3,140        | *        |
| Greenlee   | <u>0</u>     | <u>0</u> | <u>0</u>     | <u>0</u> | <u>0</u>     | <u>0</u> |
| TOTAL      | 6,135,364    | 100.0%   | 9,239,705    | 100.0%   | 11,206,334   | 100.0%   |

\* Indicates % less than .1

TABLE 33: BOAT USE DAYS BY COUNTY AND STATE (12 MONTH DATA)

| COUNTY       | TOTAL     | Arizona | California | Nevada  | Utah   |
|--------------|-----------|---------|------------|---------|--------|
| Mohave       | 526,846   | 218,253 | 257,631    | 47,887  | 3,076  |
| La Paz       | 168,485   | 67,812  | 99,980     | 693     | 0      |
| Coconino     | 158,600   | 59,910  | 22,778     | 4,878   | 71,034 |
| Maricopa     | 152,534   | 150,450 | 1,538      | 0       | 546    |
| Gila         | 55,291    | 54,855  | 436        | 0       | 0      |
| Yuma         | 32,053    | 14,586  | 16,584     | 884     | 0      |
| Apache       | 18,011    | 12,946  | 5,065      | 0       | 0      |
| Navajo       | 10,332    | 10,332  | 0          | 0       | 0      |
| Cochise      | 7,782     | 2,178   | 5,605      | 0       | 0      |
| Santa Cruz   | 4,983     | 4,983   | 0          | 0       | 0      |
| Pima         | 1,812     | 1,812   | 0          | 0       | 0      |
| Yavapai      | 871       | 871     | 0          | 0       | 0      |
| Pinal        | 0         | 0       | 0          | 0       | 0      |
| Graham       | 0         | 0       | 0          | 0       | 0      |
| Greenlee     | 0         | 0       | 0          | 0       | 0      |
| TOTAL – 2009 | 1,137,600 | 598,987 | 409,616    | 54,341  | 74,656 |
| TOTAL – 2006 | 1,896,383 | 982,614 | 766,523    | 56,445  | 90,801 |
| TOTAL – 2003 | 2,046,481 | 842,502 | 1,088,044  | 115,935 | NA     |

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TABLE 34: PERSON USE DAYS BY COUNTY AND STATE (12 MONTH DATA)

COUNTY	TOTAL	Arizona	California	Nevada	Utah
Mohave	2,921,133	1,083,888	1,594,809	206,954	35,481
Coconino	1,140,934	312,928	170,307	44,150	613,550
La Paz	984,457	327,454	653,000	4,003	0
Maricopa	610,799	599,139	10,568	0	1,092
Gila	210,884	210,013	872	0	0
Yuma	113,664	47,507	64,391	1,767	0
Apache	64,268	45,457	18,811	0	0
Cochise	41,148	6,411	34,737	0	0
Navajo	25,026	25,026	0	0	0
Santa Cruz	15,405	15,405	0	0	0
Pima	4,969	4,969	0	0	0
Yavapai	2,676	2,676	0	0	0
Pinal	0	0	0	0	0
Graham	0	0	0	0	0
Greenlee	0	0	0	0	0
TOTAL – 2009	6,135,364	2,680,873	2,547,494	256,873	650,123
TOTAL – 2006	9,239,705	4,226,066	4,090,959	226,185	696,496
TOTAL – 2003	11,206,334	3,834,958	6,905,359	466,017	NA

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TABLE 35: WATERCRAFT USE BY SPECIFIC LAKES/RIVERS (12 MONTH DATA)

| LAKE                                 | BOAT<br>USE DAYS | PERSON<br>USE<br>DAYS |
|--------------------------------------|------------------|-----------------------|
| Lake Havasu                          | 310,477          | 1,648,772             |
| Lake Powell                          | 132,036          | 1,047,350             |
| Lake Mohave                          | 128,419          | 833,199               |
| Parker Strip                         | 101,937          | 682,232               |
| Lake Mead                            | 80,306           | 423,837               |
| Pleasant                             | 74,330           | 300,264               |
| Roosevelt                            | 51,511           | 200,532               |
| Martinez Lake                        | 25,200           | 85,197                |
| Saguaro                              | 24,109           | 87,084                |
| Bartlett                             | 23,478           | 82,900                |
| Davis Dam/Topock                     | 23,012           | 108,661               |
| Ehrenberg - North Martinez<br>Canyon | 18,944           | 71,493                |
| Topock Gorge                         | 16,572           | 69,727                |
| Apache                               | 13,407           | 62,820                |
| Alamo                                | 10,769           | 54,238                |
| Lees Ferry                           | 10,088           | 34,839                |
| Big                                  | 8,786            | 41,323                |
| Parker Canyon                        | 7,975            | 24,809                |
| Squaw Lake                           | 7,782            | 41,148                |
| Headgate Dam - Ehrenberg             | 6,499            | 27,017                |
| Patagonia                            | 6,468            | 31,016                |
| Willow Springs                       | 4,843            | 14,985                |
| Blue Ridge                           | 4,769            | 14,604                |
| Hawley                               | 4,639            | 10,296                |
| San Carlos                           | 4,100            | 12,780                |
| Cholla                               | 3,780            | 10,353                |
| Woods Canyon                         | 3,639            | 10,917                |
| Sunrise                              | 3,610            | 7,813                 |
| Salt River                           | 2,418            | 11,407                |
| Show Low                             | 2,363            | 14,075                |
| Grand Canyon                         | 2,311            | 4,896                 |
| White Mtn                            | 2,272            | 8,721                 |
| Upper Lake Mary                      | 1,747            | 3,451                 |
| Arivaca                              | 1,604            | 6,052                 |
| Nelson Reservoir                     | 1,197            | 3,125                 |
| Rainbow                              | 957              | 4,552                 |
| Fools Hollow                         | 956              | 1,702                 |
| Knoll                                | 931              | 1,862                 |
| Black Canyon                         | 841              | 2,522                 |
| Lyman                                | 747              | 2,198                 |
| Lynx                                 | 737              | 5,509                 |
| Bunch                                | 731              | 2,116                 |
| Horseshoe                            | 660              | 1,980                 |
| Reservation                          | 644              | 1,703                 |
| Silverbell                           | 637              | 1,352                 |
| Bear Canyon                          | 615              | 1,845                 |
| Cataract                             | 585              | 4,449                 |
| Becker                               | 579              | 2,894                 |
|                                      | 412              | 1,572                 |

(CONTINUED)

(CONT'D) TABLE 35: WATERCRAFT USE BY SPECIFIC LAKES/RIVERS (12 MONTH DATA)

| <u>LAKE</u> | <u>BOAT<br/>USE DAYS</u> | <u>PERSON<br/>USE DAYS</u> |
|-------------|--------------------------|----------------------------|
| Long        | 374                      | 747                        |
| Mittry      | 354                      | 1,451                      |
| Kaibab      | 269                      | 538                        |
| Tempe Town  | 269                      | 807                        |
| Ashurst     | 234                      | 701                        |
| Mormon      | 182                      | 1,459                      |
| Watson      | 140                      | 561                        |
| Pena Blanca | 140                      | 420                        |
| Whitehorse  | 93                       | 187                        |
| Mexican Hay | 77                       | 231                        |
| Crescent    | 38                       | 77                         |
| TOTAL       | 1,137,600                | 6,135,364                  |

TABLE 36: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (12 MONTH)

| COUNTY: APACHE   |      |      |      |      |   |   |   |   |   | BOAT CLASS |      |       | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------|------|------|------|---|---|---|---|---|------------|------|-------|------------------|--------------------|--------------------|
| Lake             | 1    | 2    | 3    | 4    | 5 | 6 | 7 | 8 | 9 |            |      |       |                  |                    |                    |
| Becker           | 374  | 0    | 38   | 0    | 0 | 0 | 0 | 0 | 0 | 412        | 3.81 | 1572  |                  |                    |                    |
| Big              | 2989 | 660  | 1153 | 1003 | 0 | 0 | 0 | 0 | 0 | 5805       | 3.53 | 20468 |                  |                    |                    |
| Bunch            | 0    | 660  | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 660        | 3    | 1980  |                  |                    |                    |
| Concho           | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0     |                  |                    |                    |
| Crescent         | 0    | 0    | 38   | 0    | 0 | 0 | 0 | 0 | 0 | 38         | 2    | 77    |                  |                    |                    |
| Drift Fence      | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0     |                  |                    |                    |
| Hawley           | 3176 | 616  | 307  | 0    | 0 | 0 | 0 | 0 | 0 | 4100       | 3.12 | 12780 |                  |                    |                    |
| Luna             | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0     |                  |                    |                    |
| Lyman            | 0    | 660  | 77   | 0    | 0 | 0 | 0 | 0 | 0 | 737        | 7.48 | 5509  |                  |                    |                    |
| Mexican Hay      | 0    | 0    | 77   | 0    | 0 | 0 | 0 | 0 | 0 | 77         | 3    | 231   |                  |                    |                    |
| Nelson Reservoir | 234  | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 234        | 4    | 934   |                  |                    |                    |
| Reservation      | 561  | 0    | 77   | 0    | 0 | 0 | 0 | 0 | 0 | 637        | 2.12 | 1352  |                  |                    |                    |
| Sunrise          | 93   | 0    | 154  | 0    | 0 | 0 | 0 | 0 | 0 | 247        | 2.24 | 555   |                  |                    |                    |
| TOTAL            | 7427 | 2595 | 1921 | 1003 | 0 | 0 | 0 | 0 | 0 | 12946      |      | 45457 |                  |                    |                    |

| COUNTY: COCHISE |     |   |     |     |   |   |   |     |   | BOAT CLASS |      |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|-----|---|-----|-----|---|---|---|-----|---|------------|------|------|------------------|--------------------|--------------------|
| Lake            | 1   | 2 | 3   | 4   | 5 | 6 | 7 | 8   | 9 |            |      |      |                  |                    |                    |
| Parker Canyon   | 607 | 0 | 576 | 697 | 0 | 0 | 0 | 297 | 0 | 2178       | 2.94 | 6411 |                  |                    |                    |
| TOTAL           | 607 | 0 | 576 | 697 | 0 | 0 | 0 | 297 | 0 | 2178       |      | 6411 |                  |                    |                    |

| COUNTY: COCONINO |      |       |     |      |      |     |      |      |   | BOAT CLASS |      |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------|-------|-----|------|------|-----|------|------|---|------------|------|--------|------------------|--------------------|--------------------|
| Lake             | 1    | 2     | 3   | 4    | 5    | 6   | 7    | 8    | 9 |            |      |        |                  |                    |                    |
| Ashurst          | 234  | 0     | 0   | 0    | 0    | 0   | 0    | 0    | 0 | 234        | 3    | 701    |                  |                    |                    |
| Bear Canyon      | 0    | 0     | 38  | 0    | 0    | 0   | 0    | 0    | 0 | 38         | 2    | 77     |                  |                    |                    |
| Blue Ridge       | 3503 | 264   | 0   | 872  | 0    | 0   | 0    | 0    | 0 | 4639       | 2.22 | 10296  |                  |                    |                    |
| Cataract         | 0    | 0     | 0   | 0    | 0    | 0   | 0    | 0    | 0 | 0          | 0    | 0      |                  |                    |                    |
| Dogtown          | 0    | 0     | 0   | 0    | 0    | 0   | 0    | 0    | 0 | 0          | 0    | 0      |                  |                    |                    |
| Kaibab           | 0    | 0     | 269 | 0    | 0    | 0   | 0    | 0    | 0 | 269        | 2    | 538    |                  |                    |                    |
| Knoll            | 841  | 0     | 0   | 0    | 0    | 0   | 0    | 0    | 0 | 841        | 3    | 2522   |                  |                    |                    |
| Lake Powell      | 1962 | 11085 | 269 | 7018 | 9162 | 348 | 1598 | 5337 | 0 | 36779      | 6.42 | 236099 |                  |                    |                    |
| Lees Ferry       | 187  | 3915  | 0   | 828  | 1641 | 0   | 0    | 0    | 0 | 6571       | 5.01 | 32941  |                  |                    |                    |
| Long             | 374  | 0     | 0   | 0    | 0    | 0   | 0    | 0    | 0 | 374        | 2    | 747    |                  |                    |                    |
| Mormon           | 0    | 0     | 0   | 0    | 182  | 0   | 0    | 0    | 0 | 182        | 8    | 1459   |                  |                    |                    |

TABLE 36: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (12 MONTH)

| COUNTY: COCONINO |       |       |      |      |       |     |      |      |   | BOAT CLASS |      |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|-------|-------|------|------|-------|-----|------|------|---|------------|------|--------|------------------|--------------------|--------------------|
| Lake             | 1     | 2     | 3    | 4    | 5     | 6   | 7    | 8    | 9 |            |      |        |                  |                    |                    |
| Upper Lake Mary  | 701   | 132   | 0    | 87   | 684   | 0   | 0    | 0    | 0 | 1604       | 3.77 | 6052   |                  |                    |                    |
| Whitehorse       | 93    | 0     | 0    | 0    | 0     | 0   | 0    | 0    | 0 | 93         | 2    | 187    |                  |                    |                    |
| Willow Springs   | 2849  | 0     | 999  | 828  | 0     | 0   | 0    | 0    | 0 | 4677       | 2.89 | 13497  |                  |                    |                    |
| Woods Canyon     | 2803  | 0     | 807  | 0    | 0     | 0   | 0    | 0    | 0 | 3610       | 2.16 | 7813   |                  |                    |                    |
| TOTAL            | 13546 | 15397 | 2383 | 9633 | 11668 | 348 | 1598 | 5337 | 0 | 59910      |      | 312928 |                  |                    |                    |

| COUNTY: GILA |       |      |      |       |      |   |     |      |     | BOAT CLASS |      |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|-------|------|------|-------|------|---|-----|------|-----|------------|------|--------|------------------|--------------------|--------------------|
| Lake         | 1     | 2    | 3    | 4     | 5    | 6 | 7   | 8    | 9   |            |      |        |                  |                    |                    |
| Roosevelt    | 9903  | 8446 | 3151 | 17741 | 9435 | 0 | 602 | 1631 | 167 | 51075      | 3.91 | 199660 |                  |                    |                    |
| San Carlos   | 794   | 396  | 192  | 2397  | 0    | 0 | 0   | 0    | 0   | 3780       | 2.74 | 10353  |                  |                    |                    |
| TOTAL        | 10697 | 8842 | 3343 | 20139 | 9435 | 0 | 602 | 1631 | 167 | 54855      |      | 210013 |                  |                    |                    |

| COUNTY: GRAHAM |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roper          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: LA PAZ                |      |       |     |       |       |    |      |      |   | BOAT CLASS |      |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------------------|------|-------|-----|-------|-------|----|------|------|---|------------|------|--------|------------------|--------------------|--------------------|
| Lake                          | 1    | 2     | 3   | 4     | 5     | 6  | 7    | 8    | 9 |            |      |        |                  |                    |                    |
| Alamo                         | 3083 | 396   | 231 | 5797  | 0     | 0  | 0    | 0    | 0 | 9507       | 3.48 | 33096  |                  |                    |                    |
| Ehrenberg                     | 0    | 1496  | 0   | 0     | 365   | 0  | 623  | 988  | 0 | 3471       | 2.47 | 8559   |                  |                    |                    |
| Ehrenberg to the north end of | 187  | 0     | 0   | 2964  | 0     | 0  | 0    | 0    | 0 | 3151       | 2.94 | 9266   |                  |                    |                    |
| Lake Havasu                   | 135  | 3172  | 50  | 2376  | 7790  | 26 | 232  | 3000 | 0 | 16781      | 4.95 | 83113  |                  |                    |                    |
| Parker Strip                  | 1214 | 11701 | 0   | 959   | 19736 | 0  | 353  | 939  | 0 | 34903      | 5.54 | 193420 |                  |                    |                    |
| TOTAL                         | 4620 | 16765 | 281 | 12096 | 27890 | 26 | 1208 | 4927 | 0 | 67812      |      | 327454 |                  |                    |                    |

| COUNTY: MARICOPA |      |      |      |      |      |   |     |     |   | BOAT CLASS |      |       | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------|------|------|------|------|---|-----|-----|---|------------|------|-------|------------------|--------------------|--------------------|
| Lake             | 1    | 2    | 3    | 4    | 5    | 6 | 7   | 8   | 9 |            |      |       |                  |                    |                    |
| Apache           | 1261 | 4399 | 269  | 1438 | 2963 | 0 | 291 | 148 | 0 | 10769      | 5.04 | 54238 |                  |                    |                    |
| Bartlett         | 5138 | 5367 | 1768 | 6669 | 4285 | 0 | 104 | 148 | 0 | 23478      | 3.53 | 82900 |                  |                    |                    |
| Canyon           | 4437 | 2903 | 807  | 1569 | 6244 | 0 | 166 | 445 | 0 | 16572      | 4.21 | 69727 |                  |                    |                    |
| Horseshoe        | 47   | 308  | 0    | 0    | 0    | 0 | 0   | 0   | 0 | 355        | 3.17 | 1124  |                  |                    |                    |

TABLE 36: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (12 MONTH)

| COUNTY: MARICOPA |       |       |      |       |       |      |      |      |     | BOAT CLASS |      |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|-------|-------|------|-------|-------|------|------|------|-----|------------|------|--------|------------------|--------------------|--------------------|
| Lake             | 1     | 2     | 3    | 4     | 5     | 6    | 7    | 8    | 9   |            |      |        |                  |                    |                    |
| Pleasant         | 7660  | 15221 | 1960 | 19746 | 22562 | 1436 | 560  | 4497 | 687 | 74330      | 4.04 | 300264 |                  |                    |                    |
| Saguaro          | 5465  | 4839  | 769  | 4228  | 6837  | 0    | 311  | 988  | 125 | 23562      | 3.65 | 85992  |                  |                    |                    |
| Salt River       | 0     | 0     | 1114 | 0     | 0     | 0    | 0    | 0    | 0   | 1114       | 3.67 | 4086   |                  |                    |                    |
| Tempe Town       | 0     | 0     | 269  | 0     | 0     | 0    | 0    | 0    | 0   | 269        | 3    | 807    |                  |                    |                    |
| Verde River      | 0     | 0     | 0    | 0     | 0     | 0    | 0    | 0    | 0   | 0          | 0    | 0      |                  |                    |                    |
| TOTAL            | 24009 | 33036 | 6956 | 33651 | 42891 | 1436 | 1432 | 6227 | 812 | 150450     |      | 599139 |                  |                    |                    |

| COUNTY: MOHAVE   |      |       |     |       |        |     |      |       |   | BOAT CLASS |      |         | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------|-------|-----|-------|--------|-----|------|-------|---|------------|------|---------|------------------|--------------------|--------------------|
| Lake             | 1    | 2     | 3   | 4     | 5      | 6   | 7    | 8     | 9 |            |      |         |                  |                    |                    |
| Davis Dam/Topock | 1028 | 4663  | 0   | 697   | 2188   | 0   | 0    | 247   | 0 | 8823       | 3.43 | 30267   |                  |                    |                    |
| Grand Canyon     | 187  | 660   | 0   | 610   | 0      | 0   | 0    | 0     | 0 | 1457       | 4.35 | 6334    |                  |                    |                    |
| Lake Havasu      | 1219 | 28545 | 450 | 21381 | 70107  | 235 | 2092 | 26998 | 0 | 151026     | 4.95 | 748018  |                  |                    |                    |
| Lake Mead        | 794  | 1716  | 0   | 3051  | 4877   | 0   | 726  | 1680  | 0 | 12845      | 6.46 | 82972   |                  |                    |                    |
| Lake Mohave      | 981  | 6862  | 346 | 5231  | 19691  | 0   | 436  | 1927  | 0 | 35474      | 5.08 | 180122  |                  |                    |                    |
| Topock Gorge     | 420  | 3299  | 0   | 305   | 4011   | 0   | 0    | 593   | 0 | 8629       | 4.19 | 36176   |                  |                    |                    |
| TOTAL            | 4629 | 45745 | 796 | 31276 | 100873 | 235 | 3254 | 31446 | 0 | 218253     |      | 1083888 |                  |                    |                    |

| COUNTY : NAVAJO |      |      |      |   |   |   |   |   |   | BOAT CLASS |      |       | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|------|------|------|---|---|---|---|---|---|------------|------|-------|------------------|--------------------|--------------------|
| Lake            | 1    | 2    | 3    | 4 | 5 | 6 | 7 | 8 | 9 |            |      |       |                  |                    |                    |
| Black Canyon    | 187  | 176  | 384  | 0 | 0 | 0 | 0 | 0 | 0 | 747        | 2.94 | 2198  |                  |                    |                    |
| Cholla          | 0    | 2947 | 692  | 0 | 0 | 0 | 0 | 0 | 0 | 3639       | 3    | 10917 |                  |                    |                    |
| Clear Creek     | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0     |                  |                    |                    |
| Cooley          | 0    | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0     |                  |                    |                    |
| Fools Hollow    | 701  | 0    | 231  | 0 | 0 | 0 | 0 | 0 | 0 | 931        | 2    | 1862  |                  |                    |                    |
| Rainbow         | 841  | 0    | 115  | 0 | 0 | 0 | 0 | 0 | 0 | 956        | 1.78 | 1702  |                  |                    |                    |
| Show Low        | 2195 | 0    | 115  | 0 | 0 | 0 | 0 | 0 | 0 | 2311       | 2.12 | 4896  |                  |                    |                    |
| White Mtn       | 1588 | 44   | 115  | 0 | 0 | 0 | 0 | 0 | 0 | 1747       | 1.97 | 3451  |                  |                    |                    |
| TOTAL           | 5512 | 3167 | 1652 | 0 | 0 | 0 | 0 | 0 | 0 | 10332      |      | 25026 |                  |                    |                    |

| COUNTY: PIMA |     |   |     |   |   |   |   |   |   | BOAT CLASS |      |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|-----|---|-----|---|---|---|---|---|---|------------|------|------|------------------|--------------------|--------------------|
| Lake         | 1   | 2 | 3   | 4 | 5 | 6 | 7 | 8 | 9 |            |      |      |                  |                    |                    |
| Arivaca      | 467 | 0 | 730 | 0 | 0 | 0 | 0 | 0 | 0 | 1197       | 2.61 | 3125 |                  |                    |                    |

TABLE 36: WATERCRAFT USAGE: ARIZONA REGISTERED BOATS (12 MONTH)

| COUNTY: PIMA |     |   |      |   |   |   |   |   |   | BOAT CLASS |   |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|-----|---|------|---|---|---|---|---|---|------------|---|------|------------------|--------------------|--------------------|
| Lake         | 1   | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9 |            |   |      |                  |                    |                    |
| Silverbell   | 0   | 0 | 615  | 0 | 0 | 0 | 0 | 0 | 0 | 615        | 3 | 1845 |                  |                    |                    |
| TOTAL        | 467 | 0 | 1345 | 0 | 0 | 0 | 0 | 0 | 0 | 1812       |   | 4969 |                  |                    |                    |

| COUNTY: PINAL     |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Picacho Reservoir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |
| TOTAL             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          |   | 0 |                  |                    |                    |

| COUNTY: SANTA CRUZ |      |     |     |      |     |   |   |   |   | BOAT CLASS |      |       | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------------|------|-----|-----|------|-----|---|---|---|---|------------|------|-------|------------------|--------------------|--------------------|
| Lake               | 1    | 2   | 3   | 4    | 5   | 6 | 7 | 8 | 9 |            |      |       |                  |                    |                    |
| Patagonia          | 2149 | 352 | 192 | 1831 | 319 | 0 | 0 | 0 | 0 | 4843       | 3.09 | 14985 |                  |                    |                    |
| Pena Blanca        | 140  | 0   | 0   | 0    | 0   | 0 | 0 | 0 | 0 | 140        | 3    | 420   |                  |                    |                    |
| TOTAL              | 2289 | 352 | 192 | 1831 | 319 | 0 | 0 | 0 | 0 | 4983       |      | 15405 |                  |                    |                    |

| COUNTY: YAVAPAI |     |   |    |   |   |   |   |   |   | BOAT CLASS |      |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|-----|---|----|---|---|---|---|---|---|------------|------|------|------------------|--------------------|--------------------|
| Lake            | 1   | 2 | 3  | 4 | 5 | 6 | 7 | 8 | 9 |            |      |      |                  |                    |                    |
| Goldwater       | 0   | 0 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0    |                  |                    |                    |
| Lynx            | 654 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 731        | 2.89 | 2116 |                  |                    |                    |
| Watson          | 140 | 0 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 140        | 4    | 561  |                  |                    |                    |
| TOTAL           | 794 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 871        |      | 2676 |                  |                    |                    |

| COUNTY: YUMA  |      |      |   |      |      |   |   |   |   | BOAT CLASS |      |       | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|------|------|---|------|------|---|---|---|---|------------|------|-------|------------------|--------------------|--------------------|
| Lake          | 1    | 2    | 3 | 4    | 5    | 6 | 7 | 8 | 9 |            |      |       |                  |                    |                    |
| Martinez Lake | 2989 | 660  | 0 | 3051 | 6427 | 0 | 0 | 0 | 0 | 13127      | 3.31 | 43412 |                  |                    |                    |
| Mittry        | 47   | 220  | 0 | 87   | 0    | 0 | 0 | 0 | 0 | 354        | 4.1  | 1451  |                  |                    |                    |
| Squaw Lake    | 187  | 264  | 0 | 654  | 0    | 0 | 0 | 0 | 0 | 1105       | 2.39 | 2644  |                  |                    |                    |
| TOTAL         | 3223 | 1144 | 0 | 3792 | 6427 | 0 | 0 | 0 | 0 | 14586      |      | 47507 |                  |                    |                    |

TABLE 37: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (12 MONTH)

| COUNTY: APACHE   |   |      |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|------------------|---|------|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake             | 1 | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Becker           | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Big              | 0 | 2171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2171          | 2               | 4341            |
| Bunch            | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Concho           | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Crescent         | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Drift Fence      | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Hawley           | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Luna             | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lyman            | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Mexican Hay      | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Nelson Reservoir | 0 | 724  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 724           | 5               | 3618            |
| Reservation      | 0 | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Sunrise          | 0 | 2171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2171          | 5               | 10853           |
| TOTAL            | 0 | 5065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5065          |                 | 18811           |

| COUNTY: COCHISE |      |      |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|-----------------|------|------|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake            | 1    | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Parker Canyon   | 2277 | 3328 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5605          | 6.2             | 34737           |
| TOTAL           | 2277 | 3328 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5605          |                 | 34737           |

| COUNTY: COCONINO |      |       |   |   |      |   |   |   |   | BOAT CLASS    |                 |                 |
|------------------|------|-------|---|---|------|---|---|---|---|---------------|-----------------|-----------------|
| Lake             | 1    | 2     | 3 | 4 | 5    | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Ashurst          | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Bear Canyon      | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Blue Ridge       | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cataract         | 0    | 579   | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 579           | 5               | 2894            |
| Dogtown          | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Kaibab           | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Knoll            | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Lake Powell      | 3642 | 13168 | 0 | 0 | 3174 | 0 | 0 | 0 | 0 | 19984         | 7.96            | 159030          |
| Lees Ferry       | 0    | 1158  | 0 | 0 | 1058 | 0 | 0 | 0 | 0 | 2215          | 3.78            | 8383            |
| Long             | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Mormon           | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

TABLE 37: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (12 MONTH)

| COUNTY: COCONINO |      |       |   |   |      |   |   |   |   | BOAT CLASS |       |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|------|-------|---|---|------|---|---|---|---|------------|-------|---|------------------|--------------------|--------------------|
| Lake             | 1    | 2     | 3 | 4 | 5    | 6 | 7 | 8 | 9 |            |       |   |                  |                    |                    |
| Upper Lake Mary  | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0          | 0     | 0 | 0                | 0                  |                    |
| Whitehorse       | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0          | 0     | 0 | 0                | 0                  |                    |
| Willow Springs   | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0          | 0     | 0 | 0                | 0                  |                    |
| Woods Canyon     | 0    | 0     | 0 | 0 | 0    | 0 | 0 | 0 | 0 | 0          | 0     | 0 | 0                | 0                  |                    |
| TOTAL            | 3642 | 14904 | 0 | 0 | 4231 | 0 | 0 | 0 | 0 | 0          | 22778 |   | 170307           |                    |                    |

| COUNTY: GILA |   |   |   |     |   |   |   |   |   | BOAT CLASS |     |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|-----|---|---|---|---|---|------------|-----|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4   | 5 | 6 | 7 | 8 | 9 |            |     |   |                  |                    |                    |
| Roosevelt    | 0 | 0 | 0 | 436 | 0 | 0 | 0 | 0 | 0 | 0          | 436 | 2 | 872              |                    |                    |
| San Carlos   | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0                |                    |                    |
| TOTAL        | 0 | 0 | 0 | 436 | 0 | 0 | 0 | 0 | 0 | 0          | 436 |   | 872              |                    |                    |

| COUNTY: GRAHAM |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roper          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 |   | 0                |                    |                    |

| COUNTY: LA PAZ             |       |       |      |       |       |    |    |     |   | BOAT CLASS |       |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------------------|-------|-------|------|-------|-------|----|----|-----|---|------------|-------|------|------------------|--------------------|--------------------|
| Lake                       | 1     | 2     | 3    | 4     | 5     | 6  | 7  | 8   | 9 |            |       |      |                  |                    |                    |
| Alamo                      | 0     | 0     | 0    | 581   | 0     | 0  | 0  | 0   | 0 | 0          | 581   | 3    | 1743             |                    |                    |
| Ehrenberg                  | 0     | 579   | 0    | 0     | 2418  | 0  | 0  | 0   | 0 | 0          | 2997  | 7.49 | 22457            |                    |                    |
| Ehrenberg - North Martinez | 3187  | 8248  | 0    | 4358  | 0     | 0  | 0  | 0   | 0 | 0          | 15793 | 3.94 | 62227            |                    |                    |
| Lake Havasu                | 865   | 8132  | 0    | 596   | 3823  | 64 | 26 | 549 | 0 | 0          | 14055 | 5.76 | 80949            |                    |                    |
| Parker Strip               | 7740  | 32123 | 1873 | 6683  | 18134 | 0  | 0  | 0   | 0 | 0          | 66554 | 7.3  | 485624           |                    |                    |
| TOTAL                      | 11793 | 49082 | 1873 | 12218 | 24376 | 64 | 26 | 549 | 0 | 0          | 99980 |      | 653000           |                    |                    |

| COUNTY: MARICOPA |   |     |   |   |   |   |   |   |   | BOAT CLASS |     |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|-----|---|---|---|---|---|---|---|------------|-----|---|------------------|--------------------|--------------------|
| Lake             | 1 | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |     |   |                  |                    |                    |
| Apache           | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0                |                    |                    |
| Bartlett         | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0                |                    |                    |
| Canyon           | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0   | 0 | 0                |                    |                    |
| Horseshoe        | 0 | 289 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 289 | 2 | 579              |                    |                    |

TABLE 37: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (12 MONTH)

| COUNTY: MARICOPA |   |     |      |   |   |   |   |   |   | BOAT CLASS |      |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|-----|------|---|---|---|---|---|---|------------|------|---|------------------|--------------------|--------------------|
| Lake             | 1 | 2   | 3    | 4 | 5 | 6 | 7 | 8 | 9 |            |      |   |                  |                    |                    |
| Pleasant         | 0 | 0   | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0 | 0                | 0                  |                    |
| Saguaro          | 0 | 0   | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0 | 0                | 0                  |                    |
| Salt River       | 0 | 0   | 1249 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 1249 | 8 | 9989             |                    |                    |
| Tempe Town       | 0 | 0   | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0 | 0                |                    |                    |
| Verde River      | 0 | 0   | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0    | 0 | 0                |                    |                    |
| TOTAL            | 0 | 289 | 1249 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 1538 |   | 10568            |                    |                    |

| COUNTY: MOHAVE   |       |        |   |      |       |     |     |      |   | BOAT CLASS |      |         | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|-------|--------|---|------|-------|-----|-----|------|---|------------|------|---------|------------------|--------------------|--------------------|
| Lake             | 1     | 2      | 3 | 4    | 5     | 6   | 7   | 8    | 9 |            |      |         |                  |                    |                    |
| Davis Dam/Topock | 0     | 10129  | 0 | 0    | 1360  | 0   | 0   | 2424 | 0 | 13913      | 5.48 | 76181   |                  |                    |                    |
| Grand Canyon     | 0     | 0      | 0 | 0    | 756   | 0   | 0   | 0    | 0 | 756        | 3    | 2267    |                  |                    |                    |
| Lake Havasu      | 7786  | 73189  | 0 | 5361 | 34410 | 573 | 230 | 4944 | 0 | 126493     | 5.76 | 728542  |                  |                    |                    |
| Lake Mead        | 759   | 19390  | 0 | 0    | 6498  | 319 | 0   | 808  | 0 | 27773      | 5.63 | 156406  |                  |                    |                    |
| Lake Mohave      | 2580  | 54552  | 0 | 872  | 24784 | 0   | 0   | 1131 | 0 | 83918      | 7.21 | 604770  |                  |                    |                    |
| Topock Gorge     | 0     | 1302   | 0 | 0    | 3476  | 0   | 0   | 0    | 0 | 4778       | 5.58 | 26645   |                  |                    |                    |
| TOTAL            | 11125 | 158562 | 0 | 6233 | 71283 | 892 | 230 | 9306 | 0 | 257631     |      | 1594809 |                  |                    |                    |

| COUNTY: NAVAJO |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Black Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Cholla         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Clear Creek    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Cooley         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Fools Hollow   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Rainbow        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Show Low       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| White Mtn      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          |   |   | 0                |                    |                    |

| COUNTY: PIMA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Arivaca      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

TABLE 37: WATERCRAFT USAGE: CALIFORNIA REGISTERED BOATS (12 MONTH)

| COUNTY: PIMA |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Silverbell   | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: PINAL     |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake              | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Picacho Reservoir | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL             | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: SANTA CRUZ |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake               | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Patagonia          | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Pena Blanca        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL              | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: YAVAPAI |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Goldwater       | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Lynx            | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Watson          | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL           | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: YUMA  |      | BOAT CLASS |   |       |      |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|------|------------|---|-------|------|---|---|---|---|------------------|--------------------|--------------------|
| Lake          | 1    | 2          | 3 | 4     | 5    | 6 | 7 | 8 | 9 |                  |                    |                    |
| Martinez Lake | 2580 | 868        | 0 | 6683  | 1058 | 0 | 0 | 0 | 0 | 11189            | 3.58               | 40017              |
| Mittry        | 0    | 0          | 0 | 0     | 0    | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Squaw Lake    | 455  | 0          | 0 | 4940  | 0    | 0 | 0 | 0 | 0 | 5395             | 4.52               | 24373              |
| TOTAL         | 3035 | 868        | 0 | 11622 | 1058 | 0 | 0 | 0 | 0 | 16584            |                    | 64391              |

TABLE 38: WATERCRAFT USAGE: NEVADA REGISTERED BOATS (12 MONTH)

| COUNTY: APACHE   |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Becker           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Big              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Bunch            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Concho           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Crescent         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Drift Fence      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Hawley           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Luna             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Lyman            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Mexican Hay      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Nelson Reservoir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Reservation      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| Sunrise          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| TOTAL            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |

| COUNTY: COCHISE |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Parker Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |
| TOTAL           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                | 0                  |                    |

| COUNTY: COCONINO |     |      |      |      |      |   |    |   |   | BOAT CLASS |      |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|-----|------|------|------|------|---|----|---|---|------------|------|------|------------------|--------------------|--------------------|
| Lake             | 1   | DAYS | SIZE | DAYS | 5    | 6 | 7  | 8 | 9 |            |      |      |                  |                    |                    |
| Ashurst          | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Bear Canyon      | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Blue Ridge       | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Cataract         | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Dogtown          | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Kaibab           | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Knoll            | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Lake Powell      | 412 | 2582 | 0    | 0    | 1746 | 0 | 46 | 0 | 0 | 0          | 4786 | 8.99 | 43043            | 0                  |                    |
| Lees Ferry       | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Long             | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |
| Mormon           | 0   | 0    | 0    | 0    | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0    | 0                | 0                  |                    |

TABLE 38: WATERCRAFT USAGE: NEVADA REGISTERED BOATS (12 MONTH)

| COUNTY: COCONINO |     |      |   |   |      |   |    |   |   | BOAT CLASS |      |    | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|-----|------|---|---|------|---|----|---|---|------------|------|----|------------------|--------------------|--------------------|
| Lake             | 1   | 2    | 3 | 4 | 5    | 6 | 7  | 8 | 9 |            |      |    |                  |                    |                    |
| Upper Lake Mary  | 0   | 0    | 0 | 0 | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0  | 0                | 0                  |                    |
| Whitehorse       | 0   | 0    | 0 | 0 | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0  | 0                | 0                  |                    |
| Willow Springs   | 0   | 92   | 0 | 0 | 0    | 0 | 0  | 0 | 0 | 0          | 92   | 12 | 1106             |                    |                    |
| Woods Canyon     | 0   | 0    | 0 | 0 | 0    | 0 | 0  | 0 | 0 | 0          | 0    | 0  | 0                |                    |                    |
| TOTAL            | 412 | 2674 | 0 | 0 | 1746 | 0 | 46 | 0 | 0 | 0          | 4878 |    | 44150            |                    |                    |

| COUNTY: GILA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roosevelt    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| San Carlos   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 |   | 0                |                    |                    |

| COUNTY: GRAHAM |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roper          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 |   | 0                |                    |                    |

| COUNTY: LA PAZ             |   |     |   |    |     |   |   |   |   | BOAT CLASS |     |      | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------------------|---|-----|---|----|-----|---|---|---|---|------------|-----|------|------------------|--------------------|--------------------|
| Lake                       | 1 | 2   | 3 | 4  | 5   | 6 | 7 | 8 | 9 |            |     |      |                  |                    |                    |
| Alamo                      | 0 | 0   | 0 | 0  | 0   | 0 | 0 | 0 | 0 | 0          | 0   | 0    | 0                |                    |                    |
| Ehrenberg                  | 0 | 0   | 0 | 0  | 0   | 0 | 0 | 0 | 0 | 0          | 0   | 0    | 0                |                    |                    |
| Ehrenberg - North Martinez | 0 | 0   | 0 | 0  | 0   | 0 | 0 | 0 | 0 | 0          | 0   | 0    | 0                |                    |                    |
| Lake Havasu                | 0 | 157 | 0 | 49 | 0   | 0 | 0 | 7 | 0 | 0          | 212 | 3.84 | 815              |                    |                    |
| Parker Strip               | 0 | 0   | 0 | 44 | 436 | 0 | 0 | 0 | 0 | 0          | 481 | 6.63 | 3188             |                    |                    |
| TOTAL                      | 0 | 157 | 0 | 93 | 436 | 0 | 0 | 7 | 0 | 0          | 693 |      | 4003             |                    |                    |

| COUNTY: MARICOPA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Apache           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Bartlett         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Canyon           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Horseshoe        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

TABLE 38: WATERCRAFT USAGE: NEVADA REGISTERED BOATS (12 MONTH)

| COUNTY: MARICOPA |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|------------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Pleasant         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Saguaro          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Salt River       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Tempe Town       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Verde River      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             |                 | 0               |

| COUNTY: MOHAVE   |     |       |   |      |       |     |     |      |     | BOAT CLASS    |                 |                 |
|------------------|-----|-------|---|------|-------|-----|-----|------|-----|---------------|-----------------|-----------------|
| Lake             | 1   | 2     | 3 | 4    | 5     | 6   | 7   | 8    | 9   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Davis Dam/Topock | 0   | 277   | 0 | 0    | 0     | 0   | 0   | 0    | 0   | 277           | 8               | 2213            |
| Grand Canyon     | 0   | 0     | 0 | 0    | 0     | 0   | 0   | 0    | 60  | 60            | 2               | 120             |
| Lake Havasu      | 0   | 1411  | 0 | 437  | 0     | 0   | 0   | 62   | 0   | 1910          | 3.84            | 7335            |
| Lake Mead        | 236 | 11156 | 0 | 7242 | 12712 | 252 | 381 | 4510 | 123 | 36613         | 4.07            | 148978          |
| Lake Mohave      | 177 | 2582  | 0 | 883  | 4092  | 15  | 99  | 1179 | 0   | 9027          | 5.35            | 48308           |
| Topock Gorge     | 0   | 0     | 0 | 0    | 0     | 0   | 0   | 0    | 0   | 0             | 0               | 0               |
| TOTAL            | 412 | 15425 | 0 | 8563 | 16804 | 267 | 481 | 5752 | 183 | 47887         |                 | 206954          |

| COUNTY: NAVAJO |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|----------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Black Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cholla         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Clear Creek    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cooley         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Fools Hollow   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Rainbow        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Show Low       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| White Mtn      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             |                 | 0               |

| COUNTY: PIMA |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|--------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Arivaca      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

TABLE 38: WATERCRAFT USAGE: NEVADA REGISTERED BOATS (12 MONTH)

| COUNTY: PIMA |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Silverbell   | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: PINAL     |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake              | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Picacho Reservoir | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL             | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: SANTA CRUZ |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake               | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Patagonia          | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Pena Blanca        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL              | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: YAVAPAI |   | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Goldwater       | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Lynx            | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Watson          | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL           | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: YUMA  |     | BOAT CLASS |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|-----|------------|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake          | 1   | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                  |                    |                    |
| Martinez Lake | 884 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 884              | 2                  | 1767               |
| Mittry        | 0   | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Squaw Lake    | 0   | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL         | 884 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 884              |                    | 1767               |

TABLE 39: WATERCRAFT USAGE: UTAH REGISTERED BOATS (12 MONTH)

| COUNTY: APACHE   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |   |
|------------------|------------|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|---|
| Lake             | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |               |                 |                 |   |
| Becker           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Big              | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Bunch            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Concho           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Crescent         | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Drift Fence      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Hawley           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Luna             | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Lyman            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Mexican Hay      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Nelson Reservoir | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Reservation      | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| Sunrise          | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| TOTAL            | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |

| COUNTY: COCHISE | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |   |
|-----------------|------------|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|---|
| Lake            | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |               |                 |                 |   |
| Parker Canyon   | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |
| TOTAL           | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               | 0 |

| COUNTY: COCONINO | BOAT CLASS |       |     |      |       |      |   |      |   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |      |
|------------------|------------|-------|-----|------|-------|------|---|------|---|---------------|-----------------|-----------------|------|
| Lake             | 1          | 2     | 3   | 4    | 5     | 6    | 7 | 8    | 9 |               |                 |                 |      |
| Ashurst          | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Bear Canyon      | 0          | 0     | 546 | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 546             | 8               | 4372 |
| Blue Ridge       | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Cataract         | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Dogtown          | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Kaibab           | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Knoll            | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Lake Powell      | 0          | 24844 | 0   | 9468 | 27654 | 1541 | 0 | 6980 | 0 | 70488         | 8.64            | 609178          |      |
| Lees Ferry       | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Long             | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |
| Mormon           | 0          | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0             | 0               | 0               | 0    |

TABLE 39: WATERCRAFT USAGE: UTAH REGISTERED BOATS (12 MONTH)

| COUNTY: COCONINO |   |       |     |      |       |      |   |      |   | BOAT CLASS |   |        | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|-------|-----|------|-------|------|---|------|---|------------|---|--------|------------------|--------------------|--------------------|
| Lake             | 1 | 2     | 3   | 4    | 5     | 6    | 7 | 8    | 9 |            |   |        |                  |                    |                    |
| Upper Lake Mary  | 0 | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0          | 0 | 0      | 0                | 0                  |                    |
| Whitehorse       | 0 | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0          | 0 | 0      | 0                | 0                  |                    |
| Willow Springs   | 0 | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0          | 0 | 0      | 0                | 0                  |                    |
| Woods Canyon     | 0 | 0     | 0   | 0    | 0     | 0    | 0 | 0    | 0 | 0          | 0 | 0      | 0                | 0                  |                    |
| TOTAL            | 0 | 24844 | 546 | 9468 | 27654 | 1541 | 0 | 6980 | 0 | 71034      |   | 613550 |                  |                    |                    |

| COUNTY: GILA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roosevelt    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| San Carlos   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: GRAHAM |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Roper          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: LA PAZ             |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|----------------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake                       | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Alamo                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Ehrenberg                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Ehrenberg - North Martinez | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Lake Havasu                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Parker Strip               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| TOTAL                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |                  |                    |                    |

| COUNTY: MARICOPA |   |   |   |   |   |   |   |   |   | BOAT CLASS |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|------------------|---|---|---|---|---|---|---|---|---|------------|---|---|------------------|--------------------|--------------------|
| Lake             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |   |   |                  |                    |                    |
| Apache           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Bartlett         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Canyon           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |
| Horseshoe        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 | 0                |                    |                    |

TABLE 39: WATERCRAFT USAGE: UTAH REGISTERED BOATS (12 MONTH)

| COUNTY: MARICOPA |   |   |   |     |   |   |   |   |   | BOAT CLASS    |                 |                 |
|------------------|---|---|---|-----|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake             | 1 | 2 | 3 | 4   | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Pleasant         | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Saguaro          | 0 | 0 | 0 | 546 | 0 | 0 | 0 | 0 | 0 | 546           | 2               | 1092            |
| Salt River       | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Tempe Town       | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Verde River      | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL            | 0 | 0 | 0 | 546 | 0 | 0 | 0 | 0 | 0 | 546           |                 | 1092            |

| COUNTY: MOHAVE   |   |   |   |   |      |   |   |   |     | BOAT CLASS    |                 |                 |
|------------------|---|---|---|---|------|---|---|---|-----|---------------|-----------------|-----------------|
| Lake             | 1 | 2 | 3 | 4 | 5    | 6 | 7 | 8 | 9   | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Davis Dam/Topock | 0 | 0 | 0 | 0 | 0    | 0 | 0 | 0 | 0   | 0             | 0               | 0               |
| Grand Canyon     | 0 | 0 | 0 | 0 | 0    | 0 | 0 | 0 | 0   | 0             | 0               | 0               |
| Lake Havasu      | 0 | 0 | 0 | 0 | 0    | 0 | 0 | 0 | 0   | 0             | 0               | 0               |
| Lake Mead        | 0 | 0 | 0 | 0 | 2933 | 0 | 0 | 0 | 143 | 3076          | 11.54           | 35481           |
| Lake Mohave      | 0 | 0 | 0 | 0 | 0    | 0 | 0 | 0 | 0   | 0             | 0               | 0               |
| Topock Gorge     | 0 | 0 | 0 | 0 | 0    | 0 | 0 | 0 | 0   | 0             | 0               | 0               |
| TOTAL            | 0 | 0 | 0 | 0 | 2933 | 0 | 0 | 0 | 143 | 3076          |                 | 35481           |

| COUNTY: NAVAJO |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|----------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Black Canyon   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cholla         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Clear Creek    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Cooley         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Fools Hollow   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Rainbow        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| Show Low       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| White Mtn      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |
| TOTAL          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             |                 | 0               |

| COUNTY: PIMA |   |   |   |   |   |   |   |   |   | BOAT CLASS    |                 |                 |
|--------------|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------------|
| Lake         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | BOAT USE DAYS | MEAN PARTY SIZE | PERSON USE DAYS |
| Arivaca      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             | 0               | 0               |

TABLE 39: WATERCRAFT USAGE: UTAH REGISTERED BOATS (12 MONTH)

| COUNTY: PIMA |   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------|---|------------|---|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake         | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   |                  |                    |                    |
| Silverbell   | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: PINAL     |   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-------------------|---|------------|---|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake              | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   |                  |                    |                    |
| Picacho Reservoir | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL             | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: SANTA CRUZ |   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|--------------------|---|------------|---|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake               | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   |                  |                    |                    |
| Patagonia          | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Pena Blanca        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL              | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: YAVAPAI |   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|-----------------|---|------------|---|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake            | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   |                  |                    |                    |
| Goldwater       | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Lynx            | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Watson          | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL           | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

| COUNTY: YUMA  |   | BOAT CLASS |   |   |   |   |   |   |   |   | BOAT USE<br>DAYS | MEAN PARTY<br>SIZE | PERSON USE<br>DAYS |
|---------------|---|------------|---|---|---|---|---|---|---|---|------------------|--------------------|--------------------|
| Lake          | 1 | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   |                  |                    |                    |
| Martinez Lake | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Mittry        | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| Squaw Lake    | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |
| TOTAL         | 0 | 0          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                | 0                  | 0                  |

### 6.3 Combined Data Set

The next series of tables (Table 40 to Table 41) present the boat and person use days based on the combined two-week data and 12-month data sets. As may be seen, Mohave, Maricopa, La Paz and Counties generate the highest boat use and person use figures.

TABLE 40: BOAT USE DAYS AND PERSON USE DAYS  
BY COUNTY (COMBINED 2 WEEK/12 MONTH DATA)

| <u>COUNTY</u> | <u>BOAT USE DAYS</u> |          | <u>PERSON USE DAYS</u> |          |
|---------------|----------------------|----------|------------------------|----------|
|               | <u>Total</u>         | <u>%</u> | <u>Total</u>           | <u>%</u> |
| Mohave        | 2,054,130            | 46%      | 10,514,842             | 48%      |
| La Paz        | 809,035              | 18       | 4,197,284              | 19       |
| Maricopa      | 553,943              | 12       | 2,137,783              | 10       |
| Coconino      | 530,276              | 12       | 3,388,583              | 15       |
| Gila          | 230,789              | 5        | 762,132                | 3        |
| Yuma          | 106,224              | 2        | 495,176                | 2        |
| Navajo        | 44,616               | 1        | 154,328                | 1        |
| Cochise       | 41,117               | 1        | 202,722                | 1        |
| Apache        | 40,403               | 1        | 122,931                | 1        |
| Santa Cruz    | 21,004               | 0        | 80,944                 | 0        |
| Yavapai       | 5,880                | 0        | 15,461                 | 0        |
| Pinal         | 0                    | 0        | 0                      | 0        |
| Pima          | 1,812                | 0        | 4,969                  | 0        |
| Graham        | 0                    | 0        | 0                      | 0        |
| Greenlee      | <u>0</u>             | <u>0</u> | <u>0</u>               | <u>0</u> |
| TOTAL         | 4,439,229            | 100%     | 22,077,155             | 100%     |

\*Indicates % less than .1

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TABLE 41: WATERCRAFT USE BY SPECIFIC LAKES/RIVERS

(COMBINED 2 WEEK/12 MONTH DATA)

<u>LAKE</u>	<u>BOAT USE DAYS</u>	<u>PERSON USE DAYS</u>
Lake Havasu	1,075,561	5,430,965
Lake Mohave	515,443	2,884,812
Lake Powell	438,392	3,116,485
Parker Strip	396,363	2,375,103
Lake Mead	344,796	1,921,821
Pleasant	272,658	1,094,935
Headgate Dam - Ehrenberg	202,379	894,352
Roosevelt	214,455	723,086
Davis Dam/Topock	132,303	504,849
Topock Gorge	89,122	293,645
Martinez Lake	98,250	462,225
Bartlett	90,790	360,383
Canyon	72,417	241,075
Saguaro	73,183	241,703
Ehrenberg - North Martinez	58,730	278,918
Alamo	44,007	105,815
Parker Canyon	41,117	202,722
Apache	37,243	165,598
Willow Springs	23,909	69,724
Patagonia	20,864	80,524
Big	23,989	66,779
San Carlos	16,334	39,048
Bear Canyon	11,512	37,231
Lees Ferry	19,276	72,794
White Mtn	9,594	81,924
Blue Ridge	12,415	25,848
Woods Canyon	10,662	30,489
Cooley	6,726	6,726
Black Canyon	7,275	19,936
Clear Creek	6,456	12,912
Upper Lake Mary	7,134	18,159
Horseshoe	5,020	19,206
Fools Hollow	4,294	8,588
Show Low	5,674	11,622
Mormon	3,464	8,023
Lynx	3,498	10,417
Goldwater	2,242	4,484
Hawley	6,342	17,264
Grand Canyon	4,460	21,848
Reservation	2,729	7,629
Becker	1,533	3,814
Dogtown	1,121	2,242
Squaw Lake	7,620	31,501
Cresent	960	3,766
Arivaca	1,197	3,125
Ashurst	234	701
Bunch	660	1,980
Cataract	579	2,894

(CONTINUED)

(CONT'D) TABLE 41: WATERCRAFT USE BY SPECIFIC LAKES/RIVERS
(COMBINED 2 WEEK/12 MONTH DATA)

<u>LAKE</u>	<u>BOAT USE DAYS</u>	<u>PERSON USE DAYS</u>
Cholla	3,639	10,917
Concho	0	0
Drift Fence	0	0
Kaibab	269	538
Knoll	841	2,522
Long	374	747
Luna	0	0
Lyman	737	5,509
Mexican Hay	77	231
Mittry	354	1,451
Nelson Reservoir	957	4,552
Pena Blanca	140	420
Picacho Reservoir	0	0
Rainbow	956	1,702
Roper	0	0
Salt River	2,363	14,075
Silverbell	615	1,845
Sunrise	2,418	11,407
Tempe Town	269	807
Verde River	0	0
Watson	140	561
Whitehorse	<u>93</u>	<u>187</u>
TOTAL	4,439,224	22,077,161

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## 7.0 LAUNCH RAMP SURVEY DATA

This section of the report presents the findings of the launch ramp surveys which were conducted at ten Arizona lakes and rivers throughout the study period. As may be seen on Table 42, for nine of the ten lakes surveyed, the launch ramp survey findings generally parallel the findings generated in the boat owner survey. Only at Lake Mead are the findings quite different between the two surveys: at Lake Mead, the “other” state readings are very different with figures of 22 percent from the launch ramp survey and 46 percent from the boat owner survey. As in prior studies, the main reason for this difference is that the launch ramp survey at Lake Mead was conducted at Temple Bar in Arizona and the vast majority of Nevada residents who utilize the lake launch at one of three Nevada-based sites. Thus, while Nevada residents make heavy use of Lake Mead, they do not show up in the launch ramp counts.

TABLE 42: LAKE USE BY STATE OF  
RESIDENCE – LAUNCH RAMP SURVEY

| LAKE/RIVER   | STUDY                                    | ARIZONA     | CALIFORNIA | OTHER <sup>3</sup> |
|--------------|------------------------------------------|-------------|------------|--------------------|
| Bartlett     | Ramp <sup>1</sup><br>Survey <sup>2</sup> | 100%<br>100 | 0%<br>0    | 0%<br>0            |
| Havasu       | Ramp<br>Survey                           | 58<br>65    | 39<br>34   | 3<br>1             |
| Martinez     | Ramp<br>Survey                           | 51<br>58    | 48<br>42   | 1<br>0             |
| Mead         | Ramp<br>Survey                           | 32<br>16    | 46<br>38   | 32<br>46           |
| Mohave       | Ramp<br>Survey                           | 29<br>35    | 57<br>53   | 14<br>12           |
| Parker Strip | Ramp<br>Survey                           | 30<br>28    | 68<br>72   | 2<br>0             |
| Pleasant     | Ramp<br>Survey                           | 96<br>100   | 1<br>0     | 3<br>0             |
| Powell       | Ramp<br>Survey                           | 40<br>36    | 16<br>11   | 44<br>53           |
| Roosevelt    | Ramp<br>Survey                           | 98<br>100   | 1<br>0     | 1<br>0             |
| Saguaro      | Ramp<br>Survey                           | 99<br>100   | 0<br>0     | 1<br>0             |

<sup>1</sup>Boat distribution from launch ramp survey

<sup>2</sup>Boat use days from boat owner survey

<sup>3</sup>Other from boat survey only includes Nevada and Utah while other from launch ramp survey may include any state observed

\*Indicates % less than .5

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8.0 ADDITIONAL BOATING DATA

This final section of the report presents a variety of attitudinal and behavioral data regarding boat usage. When reading this section, keep in mind that all of the data presented has been computer weighted so that each state and boat classification properly represents its proportional contribution to overall boat registrations in the four-state sample universe.

8.1 Trip Expenditures

The average expenditure for a boating trip in Arizona is \$302 – down from \$352 in 2006. The typical Arizona boater spends \$233 per trip compared to \$408 for California boaters, \$133 for Nevada boaters and \$537 for Utah boaters.

TABLE 43: TRIP EXPENDITURES

“On your last boating trip in Arizona during the (FIRST/LAST) two weeks of (MONTH), how much money did you and the other members of your boating party spend on the following items?”

	% SPENDING MONEY ON ITEM	MEDIAN DAILY EXPENDITURE (AMONG THOSE SPENDING ON ITEM)
For food and beverages purchased at retail stores	79%	\$81
For equipment rental, tackle, bait and gasoline	77	121
At restaurants and bars	55	131
For entry fees or permits	54	30
For gifts, souvenirs, clothing and other personal items	26	70
For overnight lodging at hotels and motels	24	216
For any other items directly related to your boating trip which I haven't mentioned	23	90
TOTAL SPENDING ¹	96%	\$302
Arizona	95	233
California	98	408
Nevada	84	133
Utah	100	537

¹Note: Total is an independent, combined expenditure figure, not a total for the 7 selected items.
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## 8.2 Boating and Water-Based Recreational Facilities Most Needed

Boat owners were asked to indicate the most needed facilities and the most needed services at their favorite lake. Response to these two questions was very similar so they were combined on the following table for analysis. As may be seen, public restroom (23%) and launch ramps (20%) continue to receive the greatest mention from boaters. Also receiving sizeable response are increased law enforcement (10%), marinas (9%), gas stations (8%) and concessions that sell food, drinks, tackle and the like (8%). One out of three boaters (32%) indicate there are no additional facilities or services needed at their favorite lake.

TABLE 44: BOATING AND WATER-BASED  
RECREATIONAL FACILITIES/SERVICES NEEDED

“What would you say are the two or three most needed facilities at (LAKE/RIVER)?”

“And what would you say are the two or three most needed services at (LAKE/RIVER)?”

|                             | <u>TOTAL</u> |            |            |
|-----------------------------|--------------|------------|------------|
|                             | 2009         | 2006       | 2003       |
| <b>None</b>                 | <b>32%</b>   | <b>31%</b> | <b>33%</b> |
| Public restrooms            | 23           | 21         | 21         |
| Launch ramps                | 20           | 24         | 22         |
| More law enforcement        | 10           | 10         | 11         |
| Marinas                     | 9            | 10         | 10         |
| Gas stations                | 8            | 9          | 9          |
| Concessions                 | 8            | 9          | 7          |
| Restaurants/bars            | 7            | 7          | 6          |
| Parking facilities          | 6            | 6          | 6          |
| Courtesy docks              | 5            | 6          | 6          |
| Campgrounds                 | 4            | 8          | 9          |
| Boat gas dock               | 3            | 5          | 6          |
| Hotel/motel                 | 2            | 4          | 3          |
| Less litter/cleaner         | 2            | 2          | 2          |
| Beaches                     | 2            | 4          | 3          |
| Improved access roads       | 2            | 3          | 2          |
| Picnic areas and facilities | 2            | 1          | 2          |
| Trash dumpsters             | 2            | 2          | 1          |
| Emergency phones            | 2            | 1          | 1          |
| Sanitary dump stations      | 1            | 2          | 3          |
| Ramadas/shaded areas        | 1            | 1          | 2          |
| RV park/hookups             | 1            | 2          | 2          |
| Showers                     | 1            | 1          | 2          |

(CONTINUED)

(CONT.) TABLE 44: BOATING AND WATER-BASED  
RECREATIONAL FACILITIES/SERVICES NEEDED

|                          | <u>TOTAL</u> |             |             |
|--------------------------|--------------|-------------|-------------|
|                          | <u>2009</u>  | <u>2006</u> | <u>2003</u> |
| Drinking water outlets   | 1%           | 1%          | 1%          |
| Stock fish               | 1            | 1           | 1           |
| Campsites for boats only | 1            | 1           | 1           |
| Fish cleaning station    | 1            | 1           | 1           |
| First aid stations       | 1            | *           | *           |
| Towing service           | 1            | *           | *           |
| Marker buoys             | 1            | *           | *           |
| Speed limits             | 1            | *           | 0           |
| Jet ski area             | *            | 2           | 2           |
| All others               | 7            | 8           | 6           |

\*Indicates response level of less than .5 percent  
Totals exceed 100% due to multiple responses

**8.3 Evaluation of Water-Based Recreation Facilities**

Continuing with this line of questioning, boaters were next asked to evaluate each of 22 specific boating and water-based recreational facilities at their favorite lake. As Table 45 reveals, the facility registering the highest net positive reading is informational signs (+45%) followed by access roads (+44%), parking facilities for vehicles (+39%) and launch ramps (+39%). Three items continue to register net negative readings from roughly one-quarter of boaters or more: emergency telephones (-32%), drinking water outlets (-27%) and trash dumpsters accessible by boat (-19%).

Listed below are the items that showed the greatest positive change since the last survey in 2006. Overall, improved readings are recorded on 19 items, while lower readings are recorded on only three.

LARGEST POSITIVE CHANGES

- Public restrooms – 16-point net improvement;
- Informational signs – 13-point net improvement;
- Parking facilities for boat trailers – 13-point net improvement;
- Launch ramps – 12-point net improvement;
- Parking facilities for vehicles – 11-point net improvement.

**TABLE 45: EVALUATION OF WATER-BASED RECREATION FACILITIES**

“Now I’d like to read you a list of various boating and water-based recreational facilities. As I do, please just tell me if you would rate each as excellent, good, only fair or poor at (LAKE/RIVER)? If any of the facilities I mention aren’t located at (LAKE/RIVER), please just say so.”

|                                                                                         | Excel-<br>lent | Good | Only<br>Fair | Poor | Not<br>Sure | Net Pos/Neg <sup>1</sup> |      |      |
|-----------------------------------------------------------------------------------------|----------------|------|--------------|------|-------------|--------------------------|------|------|
|                                                                                         |                |      |              |      |             | 2009                     | 2006 | 2003 |
| Informational signs                                                                     | 13%            | 58%  | 16%          | 10%  | 3%          | 45%                      | 32%  | 30%  |
| Access roads                                                                            | 13             | 58   | 19           | 8    | 2           | 44                       | 44   | 40   |
| Parking facilities for vehicles                                                         | 17             | 52   | 20           | 10   | 1           | 39                       | 28   | 26   |
| Launching ramps                                                                         | 17             | 52   | 18           | 12   | 1           | 39                       | 27   | 26   |
| Parking facilities for boat<br>trailers                                                 | 17             | 51   | 19           | 12   | 1           | 37                       | 24   | 23   |
| Campgrounds                                                                             | 16             | 44   | 20           | 7    | 13          | 33                       | 28   | 23   |
| Public restrooms                                                                        | 14             | 46   | 23           | 14   | 3           | 23                       | 7    | 5    |
| Swimming beaches                                                                        | 13             | 44   | 20           | 15   | 8           | 22                       | 19   | 17   |
| Boat gas docks                                                                          | 11             | 46   | 21           | 14   | 8           | 22                       | 13   | 8    |
| Picnic areas and facilities                                                             | 13             | 48   | 21           | 9    | 9           | 21                       | 25   | 23   |
| Campsites accessible by<br>boat only                                                    | 11             | 37   | 17           | 19   | 16          | 12                       | 6    | 12   |
| Fish cleaning stations                                                                  | 10             | 33   | 11           | 20   | 26          | 12                       | 7    | 2    |
| Courtesy docks                                                                          | 9              | 44   | 23           | 20   | 4           | 10                       | (1)  | 1    |
| Concessions that sell food,<br>bait, drinks, tackle, etc.                               | 9              | 42   | 25           | 18   | 6           | 8                        | 10   | 16   |
| Sanitary dump facilities                                                                | 11             | 33   | 23           | 15   | 18          | 6                        | 1    | 6    |
| Marinas with overnight<br>docking spaces, boat<br>rental, fuel and boat<br>repair, etc. | 11             | 36   | 25           | 18   | 10          | 4                        | 0    | 4    |
| Picnic areas accessible by<br>boat only                                                 | 11             | 32   | 20           | 22   | 15          | 1                        | (2)  | 0    |
| Fishing piers                                                                           | 8              | 31   | 16           | 24   | 21          | (1)                      | (12) | (8)  |
| First-aid stations                                                                      | 6              | 25   | 15           | 28   | 26          | (12)                     | (16) | (10) |
| Trash dumpsters accessible<br>by boat                                                   | 8              | 28   | 18           | 37   | 9           | (19)                     | (24) | (20) |
| Drinking water outlets                                                                  | 2              | 25   | 18           | 36   | 19          | (27)                     | (28) | (25) |
| Emergency telephones                                                                    | 3              | 18   | 14           | 39   | 26          | (32)                     | (29) | (28) |

<sup>1</sup> Net Pos/Neg: the difference between scores for excellent/good and only fair/poor.

The next table reveals boaters' evaluations of recreation facilities by state of registration. As has been observed in the past, there is considerable variation in boaters' evaluations from state to state.

TABLE 46: EVALUATION OF WATER-BASED RECREATION FACILITIES BY STATE

|                                             | NET POSITIVE/(NEGATIVE)      |      |      |      |      |
|---------------------------------------------|------------------------------|------|------|------|------|
|                                             | <u>STATE OF REGISTRATION</u> |      |      |      |      |
|                                             | TOTAL                        | AZ   | CA   | NV   | UT   |
| Informational signs                         | 45%                          | 49%  | 36%  | 18%  | 70%  |
| Access roads                                | 44                           | 52   | 35   | 15   | 54   |
| Parking facilities for vehicles             | 39                           | 40   | 39   | 22   | 51   |
| Launching ramps                             | 39                           | 39   | 39   | 10   | 61   |
| Parking facilities for boat trailers        | 37                           | 40   | 41   | 31   | 14   |
| Campgrounds                                 | 33                           | 38   | 24   | 19   | 59   |
| Public restrooms                            | 23                           | 23   | 19   | 5    | 52   |
| Swimming beaches                            | 22                           | 11   | 24   | 10   | 80   |
| Boat gas docks                              | 22                           | 14   | 18   | 26   | 80   |
| Picnic areas and facilities                 | 21                           | 36   | 29   | 4    | 23   |
| Campsites accessible by boat only           | 12                           | 5    | 9    | 2    | 81   |
| Fish cleaning stations                      | 12                           | 13   | (3)  | 27   | 55   |
| Courtesy docks                              | 10                           | 3    | 17   | 37   | 17   |
| Concessions for food, etc.                  | 8                            | 5    | 4    | 36   | 20   |
| Sanitary dump facilities                    | 6                            | 9    | (2)  | 26   | 3    |
| Marinas with overnight docking spaces, etc. | 4                            | (1)  | 6    | 20   | 24   |
| Picnic areas accessible by boat only        | 1                            | 2    | 3    | (13) | (6)  |
| Fishing piers                               | (1)                          | 2    | (7)  | (7)  | 3    |
| First-aid stations                          | (12)                         | (13) | (14) | (24) | (15) |
| Trash dumpsters accessible by boat          | (19)                         | (15) | (19) | (12) | (29) |
| Drinking water outlets                      | (27)                         | (26) | (40) | (37) | 39   |
| Emergency telephones                        | (32)                         | (31) | (32) | (32) | (44) |

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8.4 Awareness of SLIF Program

Awareness of the SLIF program has remained relatively steady at about seven to nine percent over the past three studies.

TABLE 47: AWARENESS OF SLIF PROGRAM

“Next, the Arizona State Lake Improvement Fund, or SLIF, is a program designed to assist state and local governments in improving boating-related resources and facilities. Were you aware of this program before I mentioned it just now?”

	% YES		
	2009	2006	2003
Total	7%	8%	9%
Arizona	10	12	12
California	5	3	6
Nevada	2	6	8
Utah	0	12	NA

~~~~~

## 8.5 Utilization of SLIF Funds

After boaters had indicated their awareness of the SLIF program, they were asked to indicate how important they felt each of its six funding functions is. As Table 48 reveals, four of the six functions continue to receive very or somewhat important readings from eight out of ten boaters or more.

- The construction of recreation support facilities such as restrooms, campgrounds and picnic tables (86%);
- The construction of first-aid stations and other safety facilities (83%);
- The construction of water-based boating facilities such as marinas, launch ramps and piers (83%);
- The purchasing of law enforcement and safety equipment such as patrol boats, radios and lights (80%).

The remaining two functions – purchasing shoreline property (69%) and the development of new lakes for boating (68%) – are considered to be somewhat less important, but still are considered very or somewhat important by nearly seven in ten residents. These readings, except construction of recreation support facilities, are down slightly from the prior studies.

TABLE 48: UTILIZATION OF SLIF FUNDS

“The SLIF program is funded with revenues from boat registration fees and motor fuel taxes and there are six water-based boating functions for which these funds might be used. As I read them to you, please just tell me if you feel each one is very important, somewhat important, not very important or not at all important.”

|                                                                                                     | Very | Some-<br>what | Not<br>Very | Not<br>At All | Not<br>Sure | <u>% VERY/SOMEWHAT</u> |      |      |
|-----------------------------------------------------------------------------------------------------|------|---------------|-------------|---------------|-------------|------------------------|------|------|
|                                                                                                     |      |               |             |               |             | 2009                   | 2006 | 2003 |
| The construction of recreation support facilities such as restrooms, camp-grounds and picnic tables | 52%  | 34%           | 8%          | 5%            | 1%          | 86%                    | 85%  | 86%  |
| The construction of first-aid stations and other safety facilities                                  | 52   | 31            | 11          | 4             | 2           | 83                     | 88   | 88   |
| The construction of water-based boating facilities such as marinas, launch ramps and piers          | 50   | 33            | 11          | 5             | 1           | 83                     | 86   | 85   |
| The purchasing of law enforcement and safety equipment such as patrol boats, radios and lights      | 53   | 27            | 11          | 8             | 1           | 80                     | 87   | 87   |
| The purchasing of shoreline property at lakes which can be used for boating access                  | 35   | 34            | 18          | 11            | 2           | 69                     | 75   | 72   |
| The development of new lakes for boating use                                                        | 38   | 30            | 19          | 10            | 3           | 68                     | 72   | 73   |

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In the next SLIF question, boaters were asked if they felt the program’s funds should be used mostly for renovations or new building. By a two-to one margin, boaters prefer renovation over new building (57% vs. 26%). The reading for renovation is up from 53 percent in 2003.

TABLE 49: SLIF FUNDING PRIORITIES

“And if you had a choice, would you prefer to see the SLIF program fund the renovation of deteriorating facilities or the building of new facilities?”

	2009	2006	2003
Renovation	57%	55%	53%
New building	26	31	27
Both equal	11	9	15
Not sure	<u>6</u>	<u>5</u>	<u>5</u>
	100%	100%	100%

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The final question in this section asked boaters their preferences for the uses of a new lake, should one be developed. Seven different boating activities were evaluated and, as was the case in 2003 and 2006, four received ratings of very or somewhat important by 80 percent of the boaters or more.

- General pleasure boating (92%);
- Fishing (89%);
- Water skiing (81%);
- Power boating (80%).

Similar to the earlier studies, sailing (63%) and jet skiing (64%) received the lowest preference ratings.

**TABLE 50: PREFERRED USES OF NEW LAKE**

“If a new lake is developed for boating, do you feel that it is very important, somewhat important, not very important or not at all important that the following uses be allowed?”

|                            | Very | Some-<br>what | Not<br>Very | Not<br>At All | Not<br>Sure | <u>% VERY/SOMEWHAT</u> |      |      |
|----------------------------|------|---------------|-------------|---------------|-------------|------------------------|------|------|
|                            |      |               |             |               |             | 2009                   | 2006 | 2003 |
| General pleasure boating   | 66%  | 26%           | 4%          | 3%            | 1%          | 92%                    | 95%  | 94%  |
| Fishing                    | 67   | 22            | 6           | 4             | 1           | 89                     | 91   | 91   |
| Water skiing               | 49   | 32            | 10          | 8             | 1           | 81                     | 85   | 84   |
| Power boating              | 52   | 28            | 10          | 8             | 2           | 80                     | 84   | 83   |
| Canoeing and kay-<br>aking | 35   | 38            | 16          | 9             | 2           | 73                     | 75   | 72   |
| Jet skiing                 | 36   | 28            | 19          | 16            | 1           | 64                     | 63   | 59   |
| Sailing                    | 25   | 38            | 23          | 12            | 2           | 63                     | 66   | 68   |

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TABLE 51: PREFERRED USES OF NEW LAKE BY STATE

% VERY/SOMEWHAT IMPORTANT

STATE OF REGISTRATION

	TOTAL	AZ	CA	NV	UT
General pleasure boating	92%	91%	93%	89%	98%
Fishing	89	88	88	87	89
Water skiing	81	76	85	70	98
Power boating	80	75	84	81	98
Canoeing and kayaking	73	73	72	76	89
Jet skiing	64	56	72	52	87
Sailing	63	64	58	66	82

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**8.6 Law Enforcement Priorities**

Stopping people who are boating while drunk (49%) and stopping people who are boating recklessly (48%) continue to be the two law enforcement activities which boaters would most like to see increased at their favorite lake or river. The percent of boaters indicating more should be done is down slightly in ten of 14 categories.

TABLE 52: LAW ENFORCEMENT ACTIVITIES NEEDED

“As you know, agencies such as the Game & Fish Department, county sheriffs’ offices and other agencies patrol Arizona’s lakes and rivers. For each of the following, please tell me whether you think at (LAKE/RIVER) these agencies should be doing more than they are now, about what they are doing now or less than they are doing now regarding. . .”

% INDICATING “SHOULD BE DOING MORE”

|                                                                            | <u>TOTAL</u> |      |      | <u>STATE OF REGISTRATION</u> |     |     |     |
|----------------------------------------------------------------------------|--------------|------|------|------------------------------|-----|-----|-----|
|                                                                            | 2009         | 2006 | 2003 | AZ                           | CA  | NV  | UT  |
| Stopping people who are boating while drunk                                | 49%          | 50%  | 53%  | 46%                          | 52% | 55% | 52% |
| Stopping people who are boating recklessly                                 | 48           | 52   | 55   | 46                           | 52  | 50  | 44  |
| Providing first-aid stations                                               | 42           | 48   | 47   | 43                           | 40  | 45  | 49  |
| Marking submerged rocks and other hazards                                  | 42           | 43   | 42   | 36                           | 47  | 44  | 53  |
| Educating boaters on safe boating operations and procedures                | 40           | 40   | 43   | 39                           | 39  | 42  | 44  |
| Stopping people who overload their boat                                    | 37           | 42   | 41   | 37                           | 36  | 49  | 36  |
| Providing safety information on special hazards and conditions on the lake | 36           | 38   | 41   | 36                           | 36  | 40  | 32  |
| Providing weather warnings                                                 | 31           | 33   | 31   | 34                           | 27  | 30  | 25  |
| Stopping boats with excessive noise                                        | 29           | 35   | 34   | 30                           | 23  | 35  | 46  |
| Patrolling active use areas                                                | 28           | 29   | 31   | 27                           | 30  | 31  | 25  |
| Checking safety equipment on boats                                         | 27           | 26   | 29   | 25                           | 32  | 29  | 14  |
| Keeping boaters out of swimming or other restricted areas                  | 24           | 23   | 21   | 22                           | 28  | 22  | 24  |
| Providing rescue and emergency services                                    | 24           | 22   | 22   | 23                           | 24  | 36  | 18  |
| Providing navigational aids                                                | 23           | 29   | 25   | 21                           | 24  | 29  | 30  |

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In a related question, boaters were asked whether they agreed or disagreed with nine statements relating to law enforcement and safety issues at Arizona lakes. This line of questioning indicates that roughly three out of four boaters or more agree with the following attitudes:

- That hands-on training should be required for boat rental customers: 88 percent.
- That boating law violators should be required to take a boating safety class: 85 percent.
- That laws and regulations are being adequately enforced: 81 percent.
- That the minimum age for boat operators should be 16 years of age, not the current 12 years of age: 77 percent.

The data also reveals that boaters are split on whether or not operators should be required to complete a mandatory class prior to operating a motorized watercraft (58% agree, 39% disagree), and whether or not Arizona should have a maximum speed limit on lakes (49% agree, 48% disagree). Less than four out of ten boaters believe operators should be required to obtain a license similar to that required to drive a car (38% agree, 59% disagree), that all occupants should be required to wear a life jacket (24% agree, 75% disagree) or that they often experience conflicts with others at their favorite lake (17% agree, 81% disagree). The 2009 readings are little changed from those recorded in 2003 and 2006.

TABLE 53: ATTITUDES ON SELECTED LAW
ENFORCEMENT AND SAFETY ISSUES

“Next, do you strongly agree, agree, disagree or strongly disagree with each of the following statements?”

	Strongly Agree	Agree	Disagree	Strongly Disagree	Not Sure	<u>TOTAL AGREE</u>		
						2009	2006	2003
Rental boat operators in Arizona should be required to provide hands-on training for their customers	35%	53%	8%	1%	3%	88%	86%	87%
Violators of Arizona boating laws should be required to take a boating safety class	30	55	11	2	2	85	82	84
Laws and regulations are being adequately enforced at my favorite Arizona lake	15	66	13	2	4	81	79	79
The minimum age for boat operators in Arizona should be 16 years of age, not the current 12 years of age ¹	32	45	18	4	1	77	73	80
All boat operators in AZ should be required to complete a mandatory boating education class prior to operating a motorized watercraft	18	40	33	6	3	58	56	NA
I would support a maximum speed limit on Arizona lakes	11	38	36	12	3	49	NA	NA
Boat operators in Arizona should be required to obtain a license similar to the drivers license required for automobile drivers	12	26	46	13	3	38	38	41
All occupants of a boat should be required to wear a life jacket at all times while underway, not just persons 12 years of age or under which is the current law	9	15	54	21	1	24	23	NA
I often experience conflicts with other lake users at my favorite Arizona lake	3	14	62	19	2	17	17	17

¹Question changed to “16 years of age, not” from “higher than” 2003

NA = not asked

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## 8.7 Attitudes on Various Water-Based Recreation Issues

Boaters were asked a variety of agree/disagree questions on various water-based recreation issues. As may be seen in Table 54, the volume of “agree” responses are down slightly from 2006:

- Eight out of ten boaters (79%) support boating safety educational centers at Arizona lakes.
- A majority of boaters (65%) do not believe their favorite lake is too crowded, while 32 percent do.
- A majority of boaters (54%) believe the number of people using a lake should not be restricted during high use periods.
- 50 percent of boaters would support designating special areas for use only by jet skis – 47 percent would not.
- 47 percent of boaters believe their favorite lake needs additional primitive-type campgrounds, while 42 percent do not.
- Boaters continue to be split on whether the launch ramps at their favorite lake are too crowded (47% agree, 49% disagree).
- 45 percent of boaters believe their favorite lake needs additional developed campgrounds, while a like 45 percent do not.
- 42 percent of boaters believe their favorite lake needs additional RV hookups, while 47 percent do not.

TABLE 54: ATTITUDES ON MISCELLANEOUS  
WATER-BASED RECREATION ISSUES

“Next, do you strongly agree, agree, disagree or strongly disagree with each of the following statements?”

|                                                                                                                      | Strongly Agree | Agree | Disagree | Strongly Disagree | Not Sure | <u>TOTAL AGREE</u> |      |      |
|----------------------------------------------------------------------------------------------------------------------|----------------|-------|----------|-------------------|----------|--------------------|------|------|
|                                                                                                                      |                |       |          |                   |          | 2009               | 2006 | 2003 |
| Arizona lakes should have education centers to provide the public with opportunities to learn about boating safety   | 20%            | 59%   | 17%      | 2%                | 2%       | 79%                | 80%  | 79%  |
| I would support designating special areas for use only by jet skis                                                   | 21             | 29    | 38       | 9                 | 3        | 50                 | 55   | 57   |
| My favorite Arizona lake needs additional primitive-type campgrounds with only drinking water and pit toilets        | 8              | 39    | 37       | 5                 | 11       | 47                 | 52   | 50   |
| The launch ramps at my favorite lake are too crowded when I want to use them                                         | 15             | 32    | 45       | 4                 | 4        | 47                 | 49   | 48   |
| My favorite Arizona lake needs additional developed campgrounds with flush toilets and hot showers                   | 11             | 34    | 38       | 7                 | 10       | 45                 | 51   | 51   |
| My favorite Arizona lake needs additional full hookup campsites with water and electricity for recreational vehicles | 11             | 31    | 39       | 8                 | 11       | 42                 | 50   | 46   |
| The number of people using a lake should be restricted during high use periods                                       | 8              | 33    | 45       | 8                 | 5        | 41                 | 48   | 46   |
| My favorite Arizona lake is too crowded when I want to use it                                                        | 7              | 25    | 59       | 6                 | 3        | 32                 | 36   | 37   |

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8.8 Recreational Activities Participated In

Boaters were next asked to indicate their single favorite boating activity. As was the case in 2003 and 2006, fishing (31%), general pleasure boating (26%) and water skiing (18%) remain the top three activities. Note, however, that the readings vary greatly by state.

TABLE 55: RECREATIONAL ACTIVITIES – SINGLE FAVORITE

“Next, what is your single favorite boating activity on a typical boating trip?”

	<u>TOTAL</u>			<u>STATE OF REGISTRATION</u>			
	2009	2006	2003	AZ	CA	NV	UT
Fishing	31%	30%	25%	39%	12%	17%	4%
General pleasure boating	26	26	23	26	25	30	33
Water skiing	18	19	27	15	25	18	38
Jet skiing	7	8	12	5	15	8	0
Knee boarding	5	6	5	4	8	6	17
Tubing or rafting	5	4	3	4	8	4	0
Swimming	2	2	2	2	2	2	0
Sailing	1	1	1	1	0	5	4
Sunbathing	1	1	*	1	1	0	0
Camping	1	*	*	1	1	4	4
Other	<u>3</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>6</u>	<u>0</u>
	100%	100%	100%	100%	100%	100%	100%

*Indicates % less than .5

~~~~~

TABLE 56: RECREATIONAL ACTIVITIES – TOTAL

“And, what other boating activities do you enjoy on a typical boating trip?”

|                          | <u>TOTAL</u> |      |      | <u>STATE OF REGISTRATION</u> |     |     |     |
|--------------------------|--------------|------|------|------------------------------|-----|-----|-----|
|                          | 2009         | 2006 | 2003 | AZ                           | CA  | NV  | UT  |
| General pleasure boating | 51%          | 46%  | 48%  | 48%                          | 55% | 48% | 63% |
| Fishing                  | 38           | 41   | 40   | 52                           | 23  | 35  | 17  |
| Water skiing             | 37           | 40   | 47   | 31                           | 41  | 40  | 57  |
| Jet skiing               | 20           | 18   | 22   | 13                           | 29  | 27  | 12  |
| Tubing or rafting        | 18           | 17   | 13   | 15                           | 22  | 6   | 35  |
| Knee boarding            | 12           | 14   | 11   | 10                           | 14  | 11  | 27  |
| Swimming                 | 9            | 8    | 7    | 9                            | 6   | 15  | 13  |
| Camping                  | 6            | 3    | 6    | 6                            | 6   | 9   | 5   |
| Picnicking               | 4            | 2    | 2    | 4                            | 3   | 3   | 3   |
| Sunbathing               | 2            | 2    | 1    | 3                            | 1   | 2   | 0   |
| Sailing                  | 1            | 2    | 2    | 2                            | 1   | 1   | 1   |
| Personal transportation  | 1            | 2    | 1    | 1                            | 1   | 0   | 0   |
| Canoeing/kayaking        | 1            | *    | 1    | *                            | 2   | 1   | 5   |
| Other                    | 4            | 3    | 1    | 4                            | 4   | 9   | 0   |

\*Indicates % less than .5

Note: totals exceed 100% due to multiple responses

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8.9 Awareness of Quagga Mussel Threat

Eighty-five percent of boaters indicate that they are aware of the Quagga mussel with 46 percent indicating they know “a lot.” In addition, 64 percent of boaters who are aware of the mussel, believe it is a “major threat” to Arizona’s lakes and rivers.

TABLE 57: AWARENESS OF QUAGGA MUSSEL THREAT

“Next, there has been discussion lately about the appearance of the Quagga (qwa-ga) mussel in Arizona and its negative impact on the state’s lakes and rivers. Would you say you have heard or read a lot, some, only a little or nothing at all about the Quagga mussel?”

	<u>TOTAL</u>	<u>STATE OF REGISTRATION</u>			
	2009	AZ	CA	NV	UT
A lot	46%	43%	45%	65%	58%
Some	22	21	24	15	22
Only a little	17	19	18	11	5
Nothing at all	<u>15</u>	<u>17</u>	<u>13</u>	<u>9</u>	<u>15</u>
	100%	100%	100%	100%	100%

(AMONG THOSE AWARE)

“Do you feel the Quagga mussel is a major threat, a minor threat or not a threat to Arizona’s lakes and rivers?”

Major	64%	61%	64%	74%	80%
Minor	21	21	23	13	13
Not a threat	2	3	2	4	2
Not sure	<u>13</u>	<u>15</u>	<u>11</u>	<u>9</u>	<u>5</u>
	100%	100%	100%	100%	100%

9.0 RECOMMENDATIONS

- The new data collection sequencing utilized on the past four studies whereby the data collection effort was divided into 24, two-week segments should be continued. This method produces far more accurate and useful fuel consumption and use data than previous methods.

10.0 APPENDIX

- 10.1 Survey Questionnaire**
- 10.2 Audit Forms**
- 10.3 Agreement of the Agencies**

ADOT/AGFD/ASPB
2009 ARIZONA WATERCRAFT SURVEY

Hello, my name is _____ and I'm calling for Behavior Research Center of Arizona. We're conducting a study for the Arizona Game and Fish Department on boating on Arizona lakes and rivers, and I'd like to talk to you for a few minutes about your _____ boat. Are you or is someone else in your household the primary user of your boat?

Arizona...1
California...2
Nevada...3
Utah...4

IF RESPONDENT: CONTINUE.

IF SOMEONE ELSE: ASK TO SPEAK WITH THAT PERSON.

1. To start, was your boat used on Arizona lakes and rivers, including the Colorado River, during the **(FIRST/LAST)** two weeks of **(MONTH)**? For the purpose of this study, any location on the Colorado River or its various lakes is considered Arizona. (GO TO Q3) Yes...1
(GO TO Q2) No...2
(GO TO Q2) Don't know/Refused...3

2. Did you use your boat on Arizona lakes and rivers including the Colorado River, any time during the past 12 months? (GO TO Q2a) Yes...1
(GO TO Q2b) No...2
(GO TO Q2B) Don't know/Refused...3

2a. And on how many total days was your boat used on Arizona lakes and rivers including the Colorado River during the past 12 months? NUMBER ____/____/____

(GO TO Q15)
2b. Was there any particular reason your boat wasn't used in Arizona? (RECORD ALL MENTIONS; DO NOT READ LIST) Boat inoperable, broken down...01
Expense, could not afford...02
Too busy, no time...03
Lost interest, prefer other recreational forms...04
Out-of-state resident, use only in other state...05
Don't know where to go...06
Too far to go...07
Too crowded...08
Other (PROBE & RECORD)...09
Don't know/Refused...10

THANK RESPONDENT AND TERMINATE

3. How many days was your boat used on Arizona lakes and rivers, including the Colorado River, during the **(FIRST/LAST)** two weeks of **(MONTH)**? NUMBER ____/____/____

(IF DON'T KNOW/REFUSED, GO TO Q16)

4. And on how many total days was your boat used on Arizona lakes and rivers including the Colorado River during the past 12 months? NUMBER ____/____/____

5. Does your boat have a gas powered motor on it? (GO TO Q6) Yes...1
(GO TO Q11) No...2
(GO TO Q11) Don't know/Refused...3

6. What type of fuel does your boat use -- gasoline, diesel or aviation? Gasoline...1
Diesel...2
Aviation...3
Don't know/Not sure...4
7. And what is the horsepower of your boat engine? HORSEPOWER ____/____/____
8. On a typical day boating in Arizona during the **(FIRST/LAST)** two weeks of **(MONTH)** how many gallons of fuel did you use in your boat per day? GALLONS ____/____/____
9. What percentage of the fuel you used in your boat did you buy in Arizona? PERCENT ____/____/____
10. And what percentage of your Arizona fuel did you buy... AT ARIZONA GAS STATIONS ____/____/____
(READ EACH; MAKE SURE THE TOTAL EQUALS AT ARIZONA GAS MARINAS ____/____/____
100%) AT OTHER ARIZONA LOCATIONS ____/____/____
100%
11. Earlier you mentioned that you used your boat a total of (Q3 TOTAL) days in Arizona during the **(FIRST/LAST)** two weeks of **(MONTH)**. What I'd like you to tell me now is first, at which lakes or rivers, including the Colorado River you spent this time, and then second, how many days you spent at each lake or river you visited.

11a. (FOR EACH LAKE/RIVER VISITED, ASK): When you visited (LAKE/RIVER) during the (LAST/FIRST) two weeks of (MONTH), how many people, including yourself, were usually in your immediate boating party?

Colorado River and its lakes... (IF PERSON SIMPLY SAYS "COLORADO RIVER", PROBE FOR SPECIFIC LOCATION)

	Q11 DAYS	Q11a SIZE		Q11 DAYS	Q11a SIZE
01. Lake Powell	_____	_____	43. Horseshoe.....	_____	_____
02. Glen Canyon Dam to Lees Ferry	_____	_____	44. Horsethief Basin.....	_____	_____
03. Grand Canyon	_____	_____	45. Kaibab	_____	_____
04. Lake Mead	_____	_____	46. Kennedy	_____	_____
05. Lake Mohave (Hoover Dam to Davis Dam)	_____	_____	47. Kinnikinick	_____	_____
06. Davis Dam to Topock.....	_____	_____	48. Knoll	_____	_____
07. Topock Gorge	_____	_____	49. Lakeside.....	_____	_____
08. Lake Havasu.....	_____	_____	50. Lee Valley	_____	_____
09. Parker Strip (Parker Dam to Headgate Rock Dam)	_____	_____	51. Little Bog	_____	_____
10. Headgate Rock Dam to Ehrenberg.....	_____	_____	52. Long	_____	_____
11. Ehrenberg to the North End of Martinez Lake	_____	_____	53. Luna	_____	_____
12. Martinez Lake to Imperial Dam.....	_____	_____	54. Lyman	_____	_____
13. Mittry Lake (Imperial Dam to Morels Dam)	_____	_____	55. Lynx.....	_____	_____
			56. Mexican Hay	_____	_____
			57. Mittry	_____	_____
			58. Mormon	_____	_____
			59. McCormick	_____	_____
			60. Nelson Reservoir.....	_____	_____
			61. Painted Rocks	_____	_____
<u>Other Arizona Lakes</u>			62. Parker Canyon	_____	_____
14. Alamo.....	_____	_____	63. Patagonia	_____	_____
15. Alford	_____	_____	64. Pena Blanca.....	_____	_____
16. Apache.....	_____	_____	65. Picacho Reservoir	_____	_____
17. Arivaca.....	_____	_____	66. Pleasant	_____	_____
18. Ashurst.....	_____	_____	67. Rainbow	_____	_____
19. Bartlett	_____	_____	68. Reservation.....	_____	_____
20. Bear Canyon.....	_____	_____	69. Roosevelt	_____	_____
21. Becker.....	_____	_____	70. Roper	_____	_____
22. Big.....	_____	_____	71. Saguaro.....	_____	_____
23. Black Canyon.....	_____	_____	72. Salt River.....	_____	_____
24. Blue Ridge	_____	_____	73. San Carlos	_____	_____
25. Bunch Lake.....	_____	_____	74. Scotts Reservoir.....	_____	_____
26. Canyon	_____	_____	75. Show Low.....	_____	_____
27. Cataract	_____	_____	76. Silverbell.....	_____	_____
28. Chapparal	_____	_____	77. Squaw Lake	_____	_____
29. Cheylon.....	_____	_____	78. Stoneman	_____	_____
30. Cholla.....	_____	_____	79. Sunrise	_____	_____
31. Concho	_____	_____	80. Tempe Town	_____	_____
32. Cooley.....	_____	_____	81. Upper Lake Mary.....	_____	_____
33. Clear Creek.....	_____	_____	82. Verde River	_____	_____
34. Crescent	_____	_____	83. Watson.....	_____	_____
35. Dobson	_____	_____	84. Whitehorse	_____	_____
36. Dog Town	_____	_____	85. White Mountain	_____	_____
37. Drift Fence	_____	_____	86. Willow Springs.....	_____	_____
38. Fire Bird	_____	_____	87. Woods Canyon.....	_____	_____
39. Fool's Hollow	_____	_____	88. Other (PROBE & RECORD)	_____	_____
40. Goldwater	_____	_____			
41. Greer.....	_____	_____			
42. Hawley	_____	_____			

12. Next, on how many separate trips was your boat used in Arizona during the (FIRST/LAST) two weeks of (MONTH)?

NUMBER: ____/____/____

13. And on approximately how many total trips was your boat used in Arizona during the past 12 months?

NUMBER: ____/____/____

14. On your last boating trip in Arizona during the (FIRST/LAST) two weeks of (MONTH), how much money did you and the other members of your boating party spend on the following items? (READ EACH)

- A. For overnight lodging at hotels and motels.....AMOUNT: / / / /
- B. At restaurants and barsAMOUNT: / / / /
- C. For food and beverages purchased at retail storesAMOUNT: / / / /
- D. For equipment rental, tackle, bait and gasoline.....AMOUNT: / / / /
- E. For entry fees or permits.....AMOUNT: / / / /
- F. For gifts, souvenirs, clothing and other personal itemsAMOUNT: / / / /
- G. For any other items directly related to your boating trip which I haven't mentionedAMOUNT: / / / /

(GO TO Q16)

15. You mention that you used your boat a total of (Q2a TOTAL) days in Arizona during the past 12 months. What I'd like you to tell me now is first, at which lakes or rivers, including the Colorado River, you spent this time, and then second, how many days you spent at each lake or river you visited.

15a. (FOR EACH LAKE/RIVER VISITED, ASK): When you visited (LAKE/RIVER) during the past 12 months, how many people, including yourself, were usually in your immediate boating party?
Colorado River and its lakes... (IF PERSON SIMPLY SAYS "COLORADO RIVER", PROBE FOR SPECIFIC LOCATION)

	Q11 DAYS	Q11a SIZE		Q11 DAYS	Q11a SIZE
01. Lake Powell	_____	_____	43. Horseshoe.....	_____	_____
02. Glen Canyon Dam to Lees Ferry	_____	_____	44. Horsethief Basin.....	_____	_____
03. Grand Canyon	_____	_____	45. Kaibab.....	_____	_____
04. Lake Mead	_____	_____	46. Kennedy	_____	_____
05. Lake Mohave (Hoover Dam to Davis Dam)	_____	_____	47. Kinnikinick	_____	_____
06. Davis Dam to Topock.....	_____	_____	48. Knoll	_____	_____
07. Topock Gorge	_____	_____	49. Lakeside.....	_____	_____
08. Lake Havasu	_____	_____	50. Lee Valley	_____	_____
09. Parker Strip (Parker Dam to Headgate Rock Dam)	_____	_____	51. Little Bog	_____	_____
10. Headgate Rock Dam to Ehrenberg.....	_____	_____	52. Long	_____	_____
11. Ehrenberg to the North End of Martinez Lake	_____	_____	53. Luna	_____	_____
12. Martinez Lake to Imperial Dam	_____	_____	54. Lyman	_____	_____
13. Mittry Lake (Imperial Dam to Morels Dam)	_____	_____	55. Lynx.....	_____	_____
			56. Mexican Hay	_____	_____
			57. Mittry	_____	_____
			58. Mormon.....	_____	_____
			59. McCormick	_____	_____
			60. Nelson Reservoir.....	_____	_____
			61. Painted Rocks	_____	_____
<u>Other Arizona Lakes</u>			62. Parker Canyon	_____	_____
14. Alamo.....	_____	_____	63. Patagonia	_____	_____
15. Alford	_____	_____	64. Pena Blanca.....	_____	_____
16. Apache.....	_____	_____	65. Picacho Reservoir	_____	_____
17. Arivaca.....	_____	_____	66. Pleasant	_____	_____
18. Ashurst.....	_____	_____	67. Rainbow	_____	_____
19. Bartlett	_____	_____	68. Reservation	_____	_____
20. Bear Canyon.....	_____	_____	69. Roosevelt	_____	_____
21. Becker.....	_____	_____	70. Roper	_____	_____
22. Big.....	_____	_____	71. Saguaro.....	_____	_____
23. Black Canyon.....	_____	_____	72. Salt River.....	_____	_____
24. Blue Ridge	_____	_____	73. San Carlos	_____	_____
25. Bunch Lake.....	_____	_____	74. Scotts Reservoir.....	_____	_____
26. Canyon	_____	_____	75. Show Low.....	_____	_____
27. Cataract	_____	_____	76. Silverbell.....	_____	_____
28. Chapparal	_____	_____	77. Squaw Lake	_____	_____
29. Cheylon.....	_____	_____	78. Stoneman.....	_____	_____
30. Cholla.....	_____	_____	79. Sunrise	_____	_____
31. Concho	_____	_____	80. Tempe Town	_____	_____
32. Cooley.....	_____	_____	81. Upper Lake Mary.....	_____	_____
33. Clear Creek.....	_____	_____	82. Verde River	_____	_____
34. Cresent	_____	_____	83. Watson.....	_____	_____
35. Dobson	_____	_____	84. Whitehorse	_____	_____
36. Dog Town	_____	_____	85. White Mountain	_____	_____
37. Drift Fence	_____	_____	86. Willow Springs.....	_____	_____
38. Fire Bird	_____	_____	87. Woods Canyon.....	_____	_____
39. Fool's Hollow	_____	_____	88. Other (<u>PROBE & RECORD</u>)	_____	_____
40. Goldwater	_____	_____			
41. Greer.....	_____	_____			
42. Hawley	_____	_____			

16. To which one Arizona lake or river, including the Colorado River, did you go most often during the past 12 months?

NAME/CODE: _____

17. Next, what would you say are the two or three most needed facilities at (LAKE/RIVER MENTIONED IN Q16)?

17a. And what would you say are the two or three most needed services at (LAKE/RIVER MENTIONED IN Q16)?

18. **(SQ-1)** Now I'd like to read you a list of various boating and water-based recreational facilities. As I do, please just tell me if you would rate each as excellent, good, only fair, or poor at (LAKE/RIVER MENTIONED IN Q16). If any of the facilities I mention aren't located at (LAKE/RIVER MENTIONED IN Q16), please just say so. (ROTATE)

	Excel- lent	Good	Only Fair	Poor	Not Sure	NA/Are None
A. Launching ramps.....	1	2	3	4	5	6
B. Marinas with overnight docking spaces, boat rental, fuel, and boat repair, etc.	1	2	3	4	5	6
C. First aid stations	1	2	3	4	5	6
D. Campgrounds.....	1	2	3	4	5	6
E. Swimming beaches	1	2	3	4	5	6
F. Drinking water outlets.....	1	2	3	4	5	6
G. Parking facilities for boat trailers	1	2	3	4	5	6
H. Sanitary dump facilities	1	2	3	4	5	6
I. Informational signs	1	2	3	4	5	6
J. Picnic areas accessible by boat only	1	2	3	4	5	6
K. Boat gas docks.....	1	2	3	4	5	6
L. concessions that sell food, bait, drinks, tackle, etc.	1	2	3	4	5	6
M. Public restrooms.....	1	2	3	4	5	6
N. Campsites accessible by boat only	1	2	3	4	5	6
O. Picnic areas and facilities	1	2	3	4	5	6
P. Parking facilities for vehicles	1	2	3	4	5	6
Q. Access roads.....	1	2	3	4	5	6
R. Courtesy docks.....	1	2	3	4	5	6
S. Trash dumpsters accessible by boat.....	1	2	3	4	5	6
T. Fish cleaning station.....	1	2	3	4	5	6
U. Emergency telephones.....	1	2	3	4	5	6
V. Fishing piers	1	2	3	4	5	6

19. **(SQ-1)** As you know, agencies such as the Game & Fish Department, County Sheriff's offices and other agencies patrol Arizona's lakes and rivers. For each of the following, please tell me whether you think at (LAKE/RIVER MENTIONED IN Q16) these agencies should be doing more than they are now, about what they are doing now, or less than they are doing now regarding... (ROTATE)

	More	Same	Less	Not Sure
A. Providing weather warnings	1	2	3	4
B. Stopping people who are boating while drunk	1	2	3	4
C. Marking submerged rocks and other hazards.....	1	2	3	4
D. Checking safety equipment on boats	1	2	3	4
E. Stopping boats with excessive noise	1	2	3	4
F. Patrolling active use areas	1	2	3	4
G. Providing rescue and emergency services	1	2	3	4
H. Providing navigational aids.....	1	2	3	4
I. Providing safety information on special hazards and conditions on the lake.....	1	2	3	4
J. Keeping boaters out of swimming or other restricted areas.....	1	2	3	4
K. Stopping people who overload their boat.....	1	2	3	4
L. Stopping people who are boating recklessly.....	1	2	3	4
M. Providing first-aid stations	1	2	3	4
N. Educating boaters on safe boating operations and procedures.....	1	2	3	4

20. **(SQ-2)** Next, the Arizona State Lake Improvement Fund, or SLIF, is a program designed to assist state and local governments in improving boating related resources and facilities. Were you aware of this program before I mentioned it just now? Yes...1
No...2
Don't know/Unsure...3

20a. **(SQ-2)** The SLIF program is funded with revenues from boat registration fees and motor fuel taxes and there are six water-based boating functions for which these funds might be used. As I read them to you, please just tell me if you feel each one is very important, somewhat important, not very important or not at all important. (ROTATE).

	Very	Some-Not what Very	Not At All	Not Sure	
A. The construction of water-based boating facilities such as marinas, launch ramps and piers	1	2	3	4	5
B. The purchasing of law enforcement and safety equipment such as patrol boats, radios and lights.....	1	2	3	4	5
C. The construction of recreation support facilities such as restrooms, campgrounds and picnic tables.....	1	2	3	4	5
D. The purchasing of shoreline property at lakes which can be used for boating access	1	2	3	4	5
E. The construction of first-aid stations and other safety facilities.....	1	2	3	4	5
F. The development of new lakes for boating use.....	1	2	3	4	5

20b. **(SQ-2)** If a new lake is developed for boating, do you feel that it is very important, somewhat important, not very important or not at all important that the following uses be allowed? (ROTATE)

	Very	Some-what	Not Very	Not At All	Not Sure
A. Fishing	1	2	3	4	5
B. Waterskiing.....	1	2	3	4	5
C. Jet skiing.....	1	2	3	4	5
D. General pleasure boating	1	2	3	4	5
E. Power boating	1	2	3	4	5
F. Canoeing and kayaking.....	1	2	3	4	5
G. Sailing.....	1	2	3	4	5

20c. (SQ-2) And if you had a choice, would you prefer to see the SLIF program fund the renovation of deteriorating facilities or the building of new facilities?

Renovation...1
 New facilities...2
 (DON'T READ) Both equal...3
 (DON'T READ) Not sure...4

21. (SQ-3) Next, do you strongly agree, agree, disagree or strongly disagree with each of the following statements? (ROTATE)

	Strongly Agree	Agree	Dis-agree	Strongly Disagree	Not Sure
A. My favorite Arizona lake is too crowded when I want to use it.....	1	2	3	4	5
B. My favorite Arizona lake needs additional primitive type campgrounds with only drinking water and pit toilets.....	1	2	3	4	5
C. Laws and regulations are being adequately enforced at my favorite Arizona lake.....	1	2	3	4	5
D. The launch ramps at my favorite lake are too crowded when I want to use them.....	1	2	3	4	5
E. My favorite Arizona lake needs additional developed campgrounds with flush toilets and hot showers.....	1	2	3	4	5
F. All occupants of a boat should be required to wear life jackets at all times while underway, not just persons 12 years of age or under which is the current law.....	1	2	3	4	5
G. I would support designating special areas for use only by jet skis.....	1	2	3	4	5
H. Arizona lakes should have education centers to provide the public with opportunities to learn about boating safety.....	1	2	3	4	5
I. My favorite Arizona lake needs additional full hookup campsites with water and electricity for recreational vehicles.....	1	2	3	4	5
J. Boat operators in Arizona should be required to obtain a license similar to the drivers license required for auto-mobile drivers.....	1	2	3	4	5
K. Violators of Arizona boating laws should be required to take a boating safety class.....	1	2	3	4	5
L. All boat operators in Arizona should be required to complete a mandatory boating education class prior to operating a motorized watercraft.....	1	2	3	4	5
M. The minimum age for motorized boat operators in Arizona should be 16 years of age, not the current 12 years of age.....	1	2	3	4	5
N. Rental boat operators in Arizona should be required to provide hands on training for their customers.....	1	2	3	4	5
O. I often experience conflicts with other lake users at my favorite Arizona lake.....	1	2	3	4	5
P. The number of people using a lake should be restricted during high use periods.....	1	2	3	4	5
Q. I would support a maximum speed limit on Arizona lakes.....	1	2	3	4	5

22. (SQ-3) Next, what is your single favorite boating activity on a typical boating trip?

Water skiing...01
 Fishing...02
 General pleasure boating...03
 Jet skiing...04
 Swimming...05
 Knee boarding...06
 Tubing or rafting...07
 Picnicking...08
 Camping...09
 Personal transportation...10
 Sailing...11
 Sunbathing...12
 Canoeing/Kayaking...13
 Other (PROBE)...14
 Don't know/Not sure...15

22a. (SQ-3) And what other boating activities do you enjoy on a typical boating trip?

- Water skiing...01
- Fishing...02
- General pleasure boating...03
- Jet skiing...04
- Swimming...05
- Knee boarding...06
- Tubing or rafting...07
- Picnicking...08
- Camping...09
- Personal transportation...10
- Sailing...11
- Sunbathing...12
- Canoeing/Kayaking...13
- Other (PROBE)...14
- Don't know/Not sure...15

23. Next, there has been discussion lately about the appearance of the Quagga (QWA-GA) mussel in Arizona and its negative impact on the State's lakes and rivers. Would you say you have heard or read a lot, some, only a little or nothing at all about the Quagga mussel?

- A lot...1
 - Some...2
 - Only a little...3
 - Nothing at all...4
 - Not sure...5
- (GO TO 23a)
-
- (GO TO Q24)

23a. Do you feel the Quagga mussel is a major threat, a minor threat or not a threat to Arizona's lakes and rivers?

- Major threat...1
- Minor threat...2
- Not a threat...3
- Not sure...4

24. And finally, what county do you live in?

COUNTY: _____ / _____ / _____

Thank you very much, that completes this interview. My supervisor may want to call you to verify that I conducted this interview so may I have your first name so that they may do so? (VERIFY PHONE NUMBER)

NAME: _____

PHONE (_____) _____

ADMINISTRATIVE DATA:

INTERVIEWER NAME: _____

#: _____

VALIDATED BY: _____

#: _____

CODED BY: _____

#: _____

FROM SAMPLE: _____

BOAT CLASS: _____

10.2 Audit Forms

- Marina audits/survey forms
- Public agency forms
- Excursion/livery forms

Winter/Spring 2009

Dear Marina Owner/Operator:

The Arizona Game and Fish Department, the Arizona Department of Transportation, and the State Parks Board are required by law to complete an Arizona Watercraft Survey every three years for the purpose of determining the amount of fuel sold within Arizona that is used for propelling watercraft. This percentage is then used in determining the amount of fuel tax revenue to be allocated to the State Lake Improvement Fund for water-based recreation improvements.

We need specific information from you to be able to complete this survey. Please take a few minutes to complete the enclosed forms and promptly return them to Behavior Research Center in the postage-paid envelope provided for your convenience. Behavior Research Center has been contracted to complete the Arizona Watercraft Survey.

The information you provide will remain strictly confidential and will only be used for statistical purposes. **Please return this form even if your facility did not sell any Arizona fuel during 2008.** Your information is critical to the successful completion of the study. If you have any questions about this project, please call Bruce Hernandez of Behavior Research Center, (602) 258-4554.

Thank you for your cooperation and information.

Sincerely,

Larry D. Voyles
Director

Enclosures

2009 ARIZONA WATERCRAFT SURVEY

MARINA INVENTORY FORM

Confidential Information

Name of Facility: _____

(If the above address label is incorrect,
please make any necessary corrections)

Owner/Operator/Contact: _____

Person filling out form: _____
(If same, please indicate)

Telephone number: _____

1. Please answer the following two questions in the table provided below. If you do not have an exact number or percentage, please give your best estimate. Your information is strictly confidential and will be used for statistical purposes only.
 - 1a. How many gallons of marine fuel did your facility sell during each month of 2008?
 - 1b. What percentage of this fuel was sold to non-Arizona boaters each month? Please note that this information will be strictly confidential and used only for statistical purposes.

MONTH/YEAR	<u>Q1a</u> NUMBER OF GALLONS SOLD	<u>Q1b</u> PERCENT SOLD TO NON-ARIZONA BOATERS
January 2008	_____	_____
February 2008	_____	_____
March 2008	_____	_____
April 2008	_____	_____
May 2008	_____	_____
June 2008	_____	_____
July 2008	_____	_____
August 2008	_____	_____
September 2008	_____	_____
October 2008	_____	_____
November 2008	_____	_____
December 2008	_____	_____
TOTAL GALLONS	_____	_____

(over please)

2. What percentage of total gallons mentioned in Q.1a was purchased from Arizona gasoline distributors? _____ %
3. Does your facility have watercraft (i.e., boats, jet skis, houseboats, etc.) available on a rental basis? (Check one of the following)
- _____ Yes _____ No
- 3a. **(IF YES)** How many gallons of marine fuel were used by your rental watercraft during 2008? (Please do not report any fuel that was included in Q.1a.)
- No. of gallons

Please complete the above information and the enclosed referral form and promptly return to Behavior Research Center, Inc. 45 East Monterey Way, Phoenix, AZ 85012, in the postage paid envelope provided.

Thank you for your assistance.

REFERRAL FORM

The following is a list of marinas who have been contacted in past Watercraft Surveys. To help survey all possible marinas, please review those marinas shown in your area. If we have overlooked any, please indicate their names, addresses, and telephone numbers in the space provided below. If we have not overlooked any, please indicate so by writing "NONE" below. Please return this form to us along with your completed Marina Inventory Form. Thank you for your assistance.

Colorado River Marinas

Big Bend Resort, Parker Dam, CA
 Black Meadow Landing, Parker Dam, CA
 Blue Water Marine & RV Park, Parker, AZ
 Buckskin Mountain State Park, Parker, AZ
 Bullfrog Resort & Marina, Lake Powell, UT
 Callville Bay Resort & Marina, Las Vegas, NV
 Cottonwood Cove Marina, Cottonwood Cove, NV
 Echo Bay Resort, Overton, NV
 Echo Lodge Resort, Parker Dam, CA
 Emerald Cove Resort, Parker, AZ
 Fisher's Landing, Yuma, AZ
 Five Mile Landing, Topock, AZ
 Fox's RV Park & Tavern, Parker, AZ
 Halls Crossing Marina, Lake Powell, UT
 Havasu Landing Resort, Havasu Lake, AZ
 Havasu Springs Resort, Parker, AZ
 Hite Resort & Marina, Hite, UT
 Jake's Marine Service & Storage, Bullhead City, AZ
 Lake Havasu Marina, Lake Havasu City, AZ
 Lake Havasu Yacht Club, Lake Havasu City, AZ
 Lake Mead Resort Marina, Boulder City, NV
 Lake Mohave Resort/Seven Resorts, Bullhead City, AZ
 Las Vegas Marina, Henderson, NV
 Lost Lake Resort, Blythe, CA
 Martinez Lake Marina, Martinez Lake, AZ
 Needles Marina Park, Needles, CA
 Overton Beach Marina, Overton, NV
 Park Moabi Marina, Needles, CA
 River Island Market, Parker, AZ
 River Lodge Resort, Parker Dam, CA
 Riverland Resort, Earp, CA

Riviera RV Resort & Marina, Blythe, CA
 Sand Point Marina & RV Park, Lake Havasu City, AZ
 Seatow Havasu, Lake Havasu City, AZ
 Sunset Landing Trailer Park, Bullhead City, AZ
 Sunshine Marina, Bullhead City, AZ
 Sunshine Resort, Parker Dam, CA
 Temple Bar Resort, Inc., Temple Bar, AZ
 Topock Gorge Marina, Topock, AZ
 Wahweap Marina, Page, AZ
 Water Wheel, Blythe, CA
 Wheel-er In Family Resort, Earp, CA
 Willow Beach Resort, Willow Beach, AZ
 Windmill Resort, Earp, CA

Interior Arizona Marinas

Apache Lake Marina & Resort, Apache Lake, AZ
 Bartlett Lake Marina, Carefree, AZ
 Canyon Lake Marina, Mesa, AZ
 Crescent Lake Marina, Springerville, AZ
 Hawley Lake Store, White River, AZ
 Lake Patagonia Marina, Patagonia, AZ
 Lyman Lake Marina, St. Johns, AZ
 Parker Canyon Lake Marina, Sonoita, AZ
 Pleasant Harbor Marina, Peoria, AZ
 Rainbow Lake Lodge Resort, Lakeside, AZ
 Ray Ruiz Marina, Apache Junction, AZ
 Roosevelt Lake Marina, Roosevelt Lake, AZ
 Saguaro Lake Marina, Mesa, AZ
 San Carlos Lake Development Corporation, Peridot, AZ
 Scorpion Bay Marina, Lake Pleasant, AZ
 Tempe Town Lake, Tempe, AZ

NAME	ADDRESS	TELEPHONE

Winter/Spring 2009

Dear Agency Manager:

Arizona Revised Statutes, Section 28-5926, requires that the Arizona Game and Fish Department, the Arizona Department of Transportation and the State Parks Board complete an Arizona Watercraft Survey every three years for the purpose of determining the amount of fuel sold within Arizona that is used for propelling watercraft. This percentage is then used in determining the amount of fuel tax revenue to be allocated to the State Lake Improvement Fund for water-based recreation improvements.

We need specific information from you to be able to complete this survey. Please take a few minutes to complete the enclosed forms and promptly return them to Behavior Research Center in the postage-paid envelope provided for your convenience. Behavior Research Center has been contracted to complete the Arizona Watercraft Survey.

The information you provide will remain strictly confidential and will only be used for statistical purposes. **Please return this form even if your agency did not use any fuel in boats during 2008.** Your information is critical to the successful completion of the study. If you have any questions about this project, please call Bruce Hernandez of Behavior Research Center, (602) 258-4554.

Thank you for your cooperation and information.

Sincerely,

Larry D. Voyles
Director

Enclosures

2009 ARIZONA WATERCRAFT SURVEY

PUBLIC AGENCY INVENTORY FORM

Confidential Information

Name of Agency:

(If the above address label is incorrect,
please make any necessary corrections)

Agency Person
Responsible for
Watercraft:

Title of Person:

Telephone Number:

- A. How many gallons of fuel did your agency (or agency representative such as Coast Guard auxiliary, water posse, etc., for which your agency purchased watercraft fuel) use on Arizona lakes and rivers, including the Colorado River, in 2008? No. of gallons _____
- B. What percentage of the total gallons mentioned in Q.A was purchased from commercial marina sources? _____ %
- C. What percentage of the total gallons mentioned in Q.A did your agency pay fuel tax in 2008? _____ %

Please complete the above information and promptly return to Behavior Research Center, Inc., 45 East Monterey Way, Phoenix, AZ 85012, in the postage paid envelope provided.

Thank you for your assistance.

Winter/Spring 2009

Dear Manager:

The Arizona Game and Fish Department, the Arizona Department of Transportation, and the State Parks Board are required by law to complete an Arizona Watercraft Survey every three years for the purpose of determining the amount of fuel sold within Arizona that is used for propelling watercraft. This percentage is then used in determining the amount of fuel tax revenue to be allocated to the State Lake Improvement Fund for water-based recreation improvements.

We need specific information from you concerning the total gallons of fuel your company used during 2008 within Arizona and on the Colorado River to be able to complete this survey. Please take a few minutes to complete the enclosed forms and promptly return them to Behavior Research Center in the postage-paid envelope provided for your convenience. Behavior Research Center has been contracted to complete the Arizona Watercraft Survey. If you have any questions about this project, please call Bruce Hernandez of Behavior Research Center, (602) 258-4554.

The information you provide will remain strictly confidential and will only be used for statistical purposes. **Please return this form even if your company did not sell any Arizona fuel during 2008.** Your information is critical to the successful completion of the study.

Thank you for your cooperation and information.

Sincerely,

Larry D. Voyles
Director

Enclosures

2009 ARIZONA WATERCRAFT SURVEY

EXCURSION/LIVERY INVENTORY FORM

Confidential Information

Name of Operator:

(If the above address label is incorrect,
please make any necessary corrections)

Owner/Operator/Contact: _____

Person filling out form: _____
(If same, please indicate)

Telephone number: _____

- A. How many gallons of marine fuel did your company use during 2008 on Colorado River expeditions or in its livery/rental operations at any locations in Arizona? No. of gallons
- B. What percentage of the total gallons mentioned in Q.A was purchased from an Arizona gasoline distributor? _____ %
- C. What percentage of the total gallons mentioned in Q.A were purchased from commercial marinas? _____ %

Please complete the above information and the enclosed referral form and promptly return to Behavior Research Center, Inc., 45 East Monterey Way, Phoenix, AZ 85012, in the postage paid envelope provided.

Thank you for your assistance.

REFERRAL FORM

The following is a list of excursion/livery operators who have been contacted in past Watercraft Surveys. We are contacting marina operators separately, so please examine the following list as it only relates to excursion/livery operators. If we have overlooked any in your area, please provide us with their names, addresses, and telephone numbers in the space provided. If we have not overlooked any to your knowledge, please write "NONE." Please return this form to us along with your completed excursion/livery inventory form. Thank you for your assistance!

2 Wheels Motorcycle Repair, Bullhead City, AZ
7 Crown Resorts, Irvine, CA
A Rocco's Racing, Phoenix, AZ
A Jet Ski Rental, Phoenix, AZ
A. A. Best, Phoenix, AZ
AAA Rentals, Lake Havasu City, AZ
Adrenaline Rush Rentals, Phoenix, AZ
Action Water Sports, Henderson, NV
Adler's Cruises, Lake Havasu City, AZ
Alamo Lake Boat Rentals, Scottsdale, AZ
All Rainbow Rentals, Henderson, NV
All Wet Sports, Bullhead City, AZ
Anchors Away Rental & Storage, Page, AZ
Antelope Travel & Rec. Ctr., Page, AZ
Aramark Sports & Entertainment, Page, AZ
Arizona Aqua, Mesa, AZ
Arizona Aqua Jet, Tempe, AZ
Arizona Aquatics, Lake Havasu City, AZ
Arizona Jet Ski Center, Phoenix, AZ
Arizona Jet Ski Rentals, Lake Havasu City, AZ
Avi Resort & Casino, Laughlin, NV
AZ Jet Ski Rentals, Parker Dam, AZ
AZ River Runners, Inc., Phoenix, AZ
Aztec Storage Center, Tempe, AZ
Barnacle Bill's Boat Rental, Lake Havasu City, AZ
Beach Rentals, Lake Havasu City, AZ
Big Boyz Toyz, Phoenix, AZ
Blue Rivers, Flagstaff, AZ
Blue Water Charter, Lake Havasu City, AZ
Blue Water Rentals, Lake Havasu City, AZ
Boatel Catamarans, Inc., Page, AZ
Boulder City Water Sports, Boulder City, NV
Buck Bay Canoes & Kayaks, Bullhead City, AZ
Bullhead City Watercraft Rentals, AZ
Canyoneers, Inc., Flagstaff, AZ
Canyon Explorations, Flagstaff, AZ
Canyon Road Storage, Boulder City, NV
Capt. Dan's Charters, Page, AZ
Champion Rentals, Lake Havasu City, AZ
Colorado River & Trail Expeditions, Inc., Salt Lake City, UT
Copper Cyn Rentals, Lake Havasu City, AZ
Corporate Auto/Marine, Phoenix, AZ
Cross Tours & Explorations, Provo, UT
D and M Sports Shop, Parker, AZ
Del Rio Beach Club, Laughlin, NV
Desert Canoe Rentals, Blythe, CA
Desert River Outfitters, Bullhead City, AZ
Desert River Sports, Bullhead City, AZ
Diamond River Adventures, Page, AZ
Discount Water Sports, Bullhead City, AZ
Dixie Bell, Lake Havasu City, AZ
Dolly's Steamboat Cruises, Apache Jct
Doo Powell, Page, AZ
East Side Watersports, Las Vegas, NV
Encanto Boating Co., Phoenix, AZ
Expeditions, Inc., Flagstaff, AZ
Express Jet Ski Rentals, Phoenix, AZ
Fish On Boat Rental, Scottsdale, AZ
Fisherman's Bait & Tackle & Ammo, Lake Havasu City, AZ
Foothills Rental Center, Cave Creek, AZ
Fred's Cycle & Sports, Blythe, AZ
Fun Center Inc., Lake Havasu City, AZ
Fun Time Boat Rentals, Lake Havasu City, AZ
Get It Wet Watercraft, Henderson, NV
Gettin' Wet Watercraft, Inc., Mesa, AZ
Glen Canyon Float Trips, Page, AZ
Goertzen Water Cycle, Lake Havasu City
Good Time Rentals, Phoenix, AZ
Grand Canyon Dorries, Inc., Altaville, CA
Grand Canyon Expeditions, Flagstaff, AZ
Grand Canyon Expeditions, Kanab, UT
H2O Houseboat Vacations, Lake Havasu City
Hatch River Expeditions, Inc., Vernal UT
Havaski Beach Rentals, Lake Havasu City, AZ
Havasu Marina Corp., Lake Havasu City AZ
Hawley Lake Rentals, McNary, AZ
Hays Rents, Forest Lakes, AZ
High Country Rec., Tucson, AZ
High Desert Adventures, St. George, UT
High Image Marine, Page, AZ
Holiday River Expeditions, Salt Lake City UT
Hualapai Tribal River Trips & Tours, Peach Springs, AZ
Island Boat Rentals, Lake Havasu City, AZ
J's Watercraft Rentals, Bullhead City, AZ
Jerry's Marine Service, Page, AZ
Jet-N-Ski, Phoenix, AZ
Jet Action Rentals, Tempe, AZ
Jet Rent, Yuma, AZ
Jet Ski MD, Page, AZ
Jet Ski Unlimited, Phoenix, AZ
Jet Sports Unlimited, Phoenix, AZ
Jettco Jet Ski Rentals, Lake Havasu City AZ
Joey's Watercraft Connection, Phoenix, AZ
John's Watercraft Worx, Bullhead City, AZ
Kayak, Canoe & Boat Rentals, Glendale, AZ
Lake Havasu Boat Tours, Lake Havasu City
Lake Mary Fishing Boat Rentals, Flagstaff, AZ
Lake Mead Resort, Boulder City, NV
Lake Pleasant Watercraft Rentals, Glendale, AZ
Lake Powell Limited, Phoenix, AZ
Lake-Time, Page, AZ
Lakeview Boat Storage, Big Water, UT
Laughlin River Tours, Inc., Laughlin, NV
Lee's Ferry Anglers, Ltd., Marble Cyn AZ
Liberty Motorsport, Yuma, AZ
London Bridge Watercraft Rentals, Lake Havasu City, AZ

Lynx Lake Store/Boat Rentals, Prescott AZ
 Marine Abilities, Lake Havasu City, AZ
 Martinez Lake Resort, Yuma, AZ
 MCC Jet Ski Rentals, Peoria, AZ
 McCulloch Properties, Lake Havasu City AZ
 MDX Whitewater Boats, Mesa, AZ
 Mike's Marine Rentals, Henderson, NV
 Mike's Trophy Fishing, Snowflake, AZ
 Moki Mac River Expeditions, Inc.,
 Salt Lake City, UT
 Monte Vista Marine, Inc., Flagstaff, AZ
 Morris Travel, Orem, UT
 Nauti Bouys, Lake Havasu City, AZ
 Northern Arizona Boat Rental, Page, AZ
 O.A.R.S., Inc. Angels Camp, CA
 Oar, Inc., Flagstaff, AZ
 Oceanside Motorsports, Apache Jct, AZ
 Oceanside Water Sport, Apache Jct, AZ
 Old Western Trader, Golden Shores, AZ
 Outdoors Unlimited, Flagstaff, AZ
 Outfitters, Inc., Flagstaff, AZ
 Palm Oasis Rentals, Lake Havasu City, AZ
 Precision Marine, Phoenix, AZ
 Precision Outdoor Power, Tucson, AZ
 Prescott Equip. Rentals /Sales, Prescott AZ
 Primetime Watersport, Bullhead City, AZ
 Professional River, Flagstaff, AZ
 Raft Adventures, Inc., Flagstaff, AZ
 RC Marine, Lake Havasu City, AZ
 Rebel Adventure Tours, Las Vegas, NV
 Recreation Services, Scottsdale, AZ
 Rent-A-Boat, Page, AZ
 Rental World, Tempe, AZ
 Rentor On-Line/USA Watercraft, Bullhead City,
 AZ
 Resort Boat Rental, Lake Havasu City, AZ
 Rick's Pontoon Boat Rentals, Lake
 Havasu City, AZ
 River Rat Watersports, Laughlin, NV
 River Rat Wave Rider Rentals, Lake
 Havasu City, AZ
 River Radness Rentals, Bullhead City AZ
 River Travel Center, Pt. Arena, CA
 Riverfront Water Sports, Bullhead City, AZ

Riverjetz Watercraft & ATV Rentals, Bullhead
 City, AZ
 Riverside Water Sports, Bullhead City, AZ
 Rocket Rentals, Phoenix, AZ
 Sail Havasu, Lake Havasu City, AZ
 SB Rentals, Parker Dam, AZ
 Scottie's Jet Ski Rentals, Lake Havasu City AZ
 Seven Resorts, Temple Bar, AZ
 Skip's Prop Shop, Lake Havasu City, AZ
 Skipperliner Marine, Page, AZ
 Skylite Boat Rental, Bit Water, UT
 Splash Watercraft Rentals, Bullhead City, AZ
 Starbrite Boat Rentals, Greenhaven, AZ
 Summit Drivers & Water Sports, Flagstaff, AZ
 Sun Country RV Service, Glendale, AZ
 Sunburst Performance, Lake Havasu City, AZ
 Sunrise Peak, Inc., West Jordan, UT
 Sunski Rental, Roosevelt, AZ
 The Boat Brokers, Marble Canyon, AZ
 The Dory Connection, Flagstaff, AZ
 Tincanebitts Taxi Service, Meadview, AZ
 Tom's Water Sports, Henderson, NV
 Total Rentals & Sales Ctr, Flagstaff, AZ
 Tour West, Inc., Orem, UT
 Trophy Trout Towers, Marble Canyon, AZ
 U-Tow, Phoenix, AZ
 Verde River Boat Rides, Camp Verde AZ
 Wahweap Lodge, Page, AZ
 Water Sport Centers, Inc., Lake Havasu
 City, AZ
 Water Trix - Jet Ski & Quad Rentals,
 Gilbert, AZ
 Watercraft Adventures, Needles, CA
 Watercraft Beach, Bullhead City, AZ
 Wave Riders Watercraft Rental, Lake Havasu
 City, AZ
 Western River Expeditions, Salt Lake City, UT
 Wet & Wild, Bullhead City, AZ
 Wet Ski Jet Ski Shop, Glendale, AZ
 White Magic Unlimited, Mill Valley, CA
 Wild Wave Rentals, Kanab, UT
 Willow Beach Harbor, Willow Beach, AZ
 Wildcat Watersports, Page, AZ

NAME	ADDRESS	TELEPHONE
_____	_____	_____
_____	_____	_____
_____	_____	_____

10.3 Agreement of the Agencies

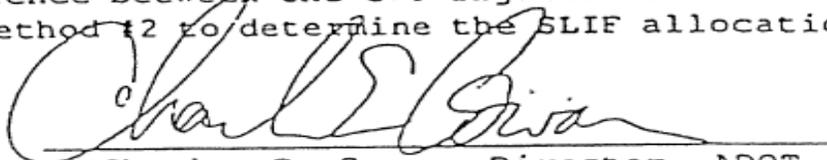
EXHIBIT 6.4

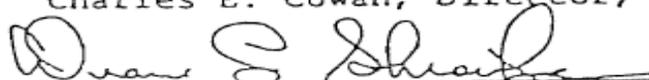
AGREEMENT OF THE AGENCIES

For the first time in the history of the Arizona Watercraft Survey, the study included a cross-check of boaters' estimates of fuel purchased from marinas with marinas' estimates of fuel sold. The check revealed a significant difference between the two estimates. The impact of this discrepancy on allocations from the Highway Users Revenue Fund to the State Lake Improvement Fund (SLIF) would be substantial. If we base our calculations on the boaters' estimates of fuel purchased, the SLIF allocation would be 2.0395 percent or approximately \$6 million annually. However, if we base our calculations on the marinas' estimates of fuel sold, the SLIF allocation would be .9576 percent or approximately \$3 million annually. Therefore, until the next regular survey in 1994 we have agreed to continue payments to the SLIF at 1.4 percent, the rate established by the 1988 watercraft survey and used for fiscal years 1988, 1989, and 1990.

State law requires that motor fuel taxes collected be deposited in the funds reflecting where the taxes were earned. The watercraft survey is intended to determine where these taxes are earned. Consequently, we have agreed that the 1994 survey must be designed to obtain the most accurate data possible, and we will fund the survey at the amount required to obtain this data. We believe an improved survey design will reduce or eliminate the discrepancy between the boaters' and the marinas' estimates

In any case, if the improved survey design does not significantly reduce the discrepancy, we have agreed to resolve the difference by using one of two methods which are shown on the attachment. We will compare boaters' estimates of marina fuel purchases and marinas' estimates of fuel sales. If the difference between the two figures is 25 percent or less, method #1 will be used to calculate the SLIF allocation; if the difference between the two figures is more than 25 percent, we will use method #2 to determine the SLIF allocation.


Charles E. Cowan, Director, ADOT


Duane L. Shroufe, Director, Game & Fish


Kenneth E. Travous, Director, State Parks